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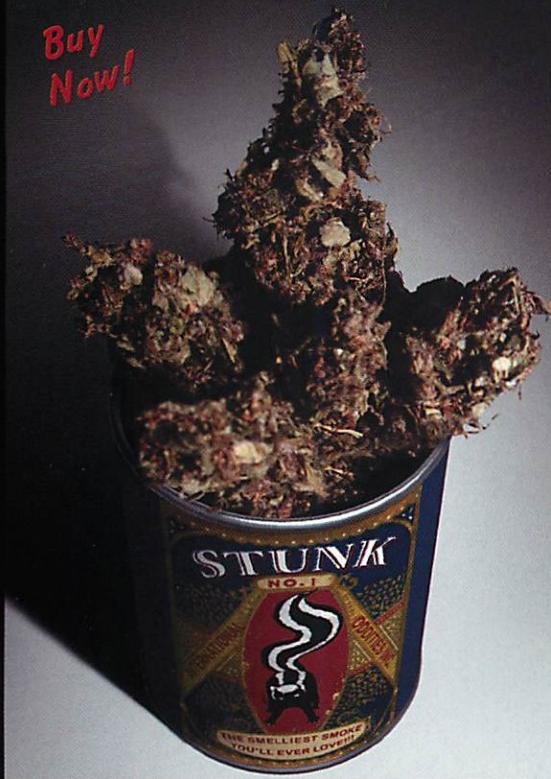
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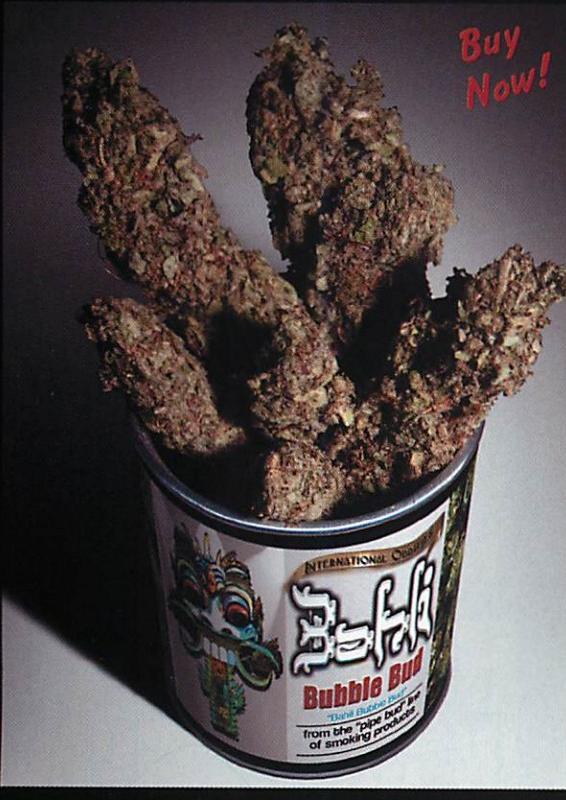
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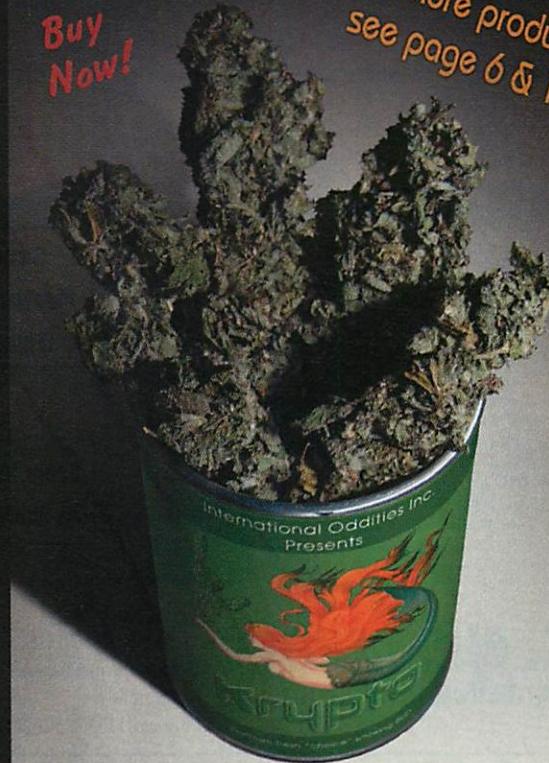
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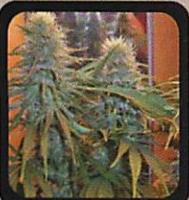
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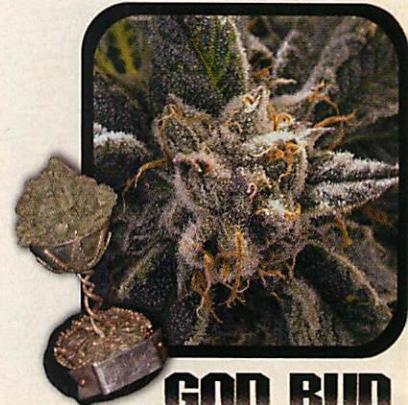


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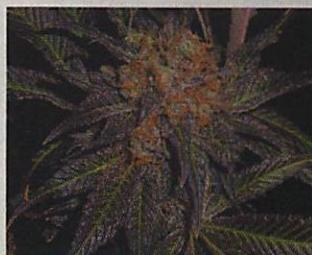
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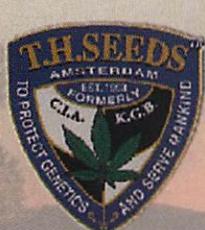
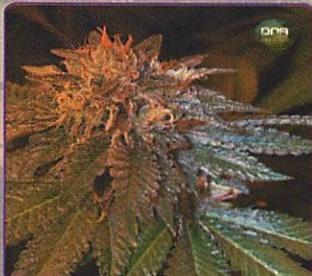
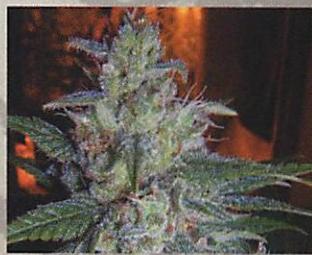
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Genetics: 80% Indica / 20% Sativa
Specifics: Super skunk - Big Skunk Korean - Afghani-Hawaiian
Flowering Time: Indoors: 8-9 weeks

T.H.Seeds - Kushage

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Genetics: 50% Indica / 50% Sativa
Specifics: SAGE x OG Kush
Flowering Time: Indoor: 9 - 10 weeks

DNA Genetics - LA Confidential

The high of this herb is psychedelic and energetic with a hammer. There are two real phenotypes and they will both finish in 55-60 days. One is a bit more hardy but both equal in knock down drag out stone. With an incredible smell and unique L.A. flavour, DNA's LA Confidential is a multiple HT Cannabis Cup Winner.

Genetics: 100% Indica
Specifics: O.G. LA Affie x Afgani
Flowering Time: Indoor: 8 weeks

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A collage of images. At the top left, a woman with blonde hair and red lips, wearing a green top, holds a small potted cannabis plant. To her right, another woman in an orange tank top wears a 'WARNING Mrs. BCBD rocks' sticker on her chest. In the bottom left corner, a close-up of a brown pit bull terrier's face. In the bottom right corner, a map of the Jordaan district in Amsterdam with street names like Willemsstraat, Goudsbloemstraat, Lindengracht, Lindenstraat, Boomstraat, and Palmstraat. A small globe icon is on the map.

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BECOMING A MASTER GROWER

Thousands of bud lovers write to HIGH TIMES each month. Many are seeking answers to grow-related questions, some are sending photos of their newly harvested crops and a few are just offering thanks and compliments on recent articles. HT's staff takes great joy in reading these notes of appreciation from our readers, and the positive feedback motivates us to continually produce an excellent magazine.

I've selected the stories for this biannual collection of the Best of HIGH TIMES, and in the process of filtering through past content, I've thought often about what the readers need and want. The criteria for inclusion in this special collector's edition are stories with excellent photography, valuable information and instruction on cultivating cannabis that can't be found anywhere else.

One of the most frequently asked questions HT receives from novice growers concerns sexing plants, so I've included "Sex in the Growroom," (Aug. '05). Recent gear reports ("7th Annual Stash Awards," Sept. '05; and "7th Annual Hydro Report," Feb. '06) will point you in the right direction on important purchases, and the first-ever organics special, "Organics: Keeping It Real," (May '06), reveals the secrets to an all-natural harvest of conscious cannabis. Also for beginners, "Big Yields in Small Spaces," (Oct. '05) will show you how to stay dealer-free forever.

Cultivators with more experience can expand further with a series of seed-breeder profiles, including DNA Genetics, Subcool and Reeferman, all leaders in the marijuana-genetics field. Cloning and curing techniques, hash-making and growroom security complete the collection of articles, creating a valuable resource for anyone who's ever dreamed of smoking the fruits of their own labor.

Cheers,

Elise McDonough

Elise McDonough
Production Director & Photo Editor

HIGH TIMES

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National Advertising Office: 419 PARK AVENUE SOUTH, 16TH FLOOR
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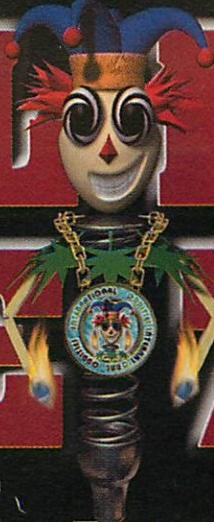
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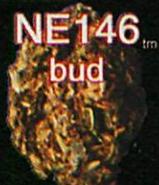
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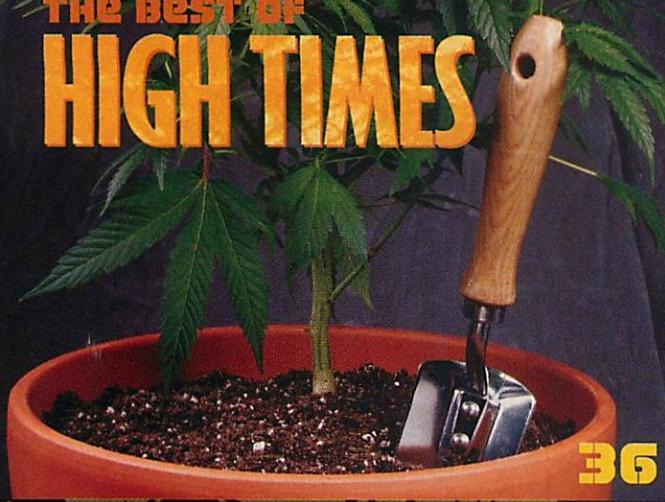
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THE BEST OF

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90 DEPARTMENT OF GROWROOM SECURITY

BY MAX YIELDS

Protect your crop and you'll have many successful harvests.

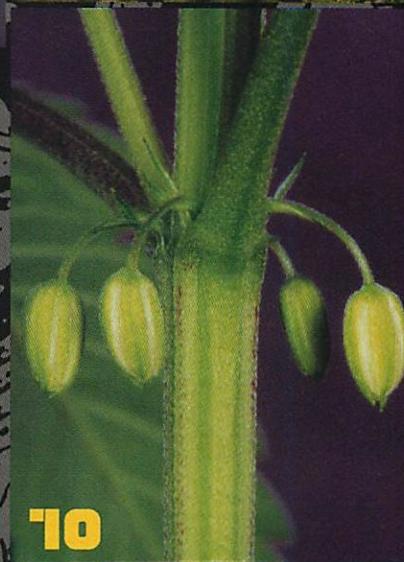
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BY DANNY DANKO AND BIG CROPPA

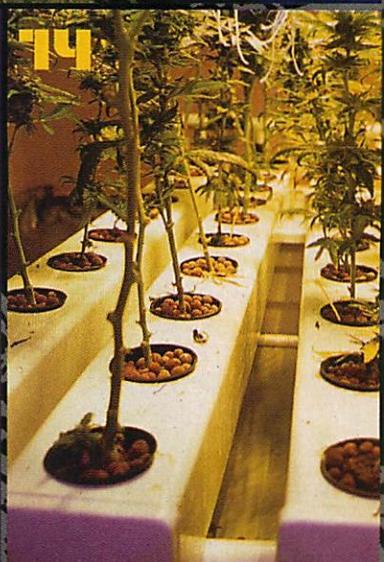
Our test team announces the best grow gear of 2005—from cloning machines and hydro tables to nutrients and harvest tools. Discover the cream of the crop for your crop.



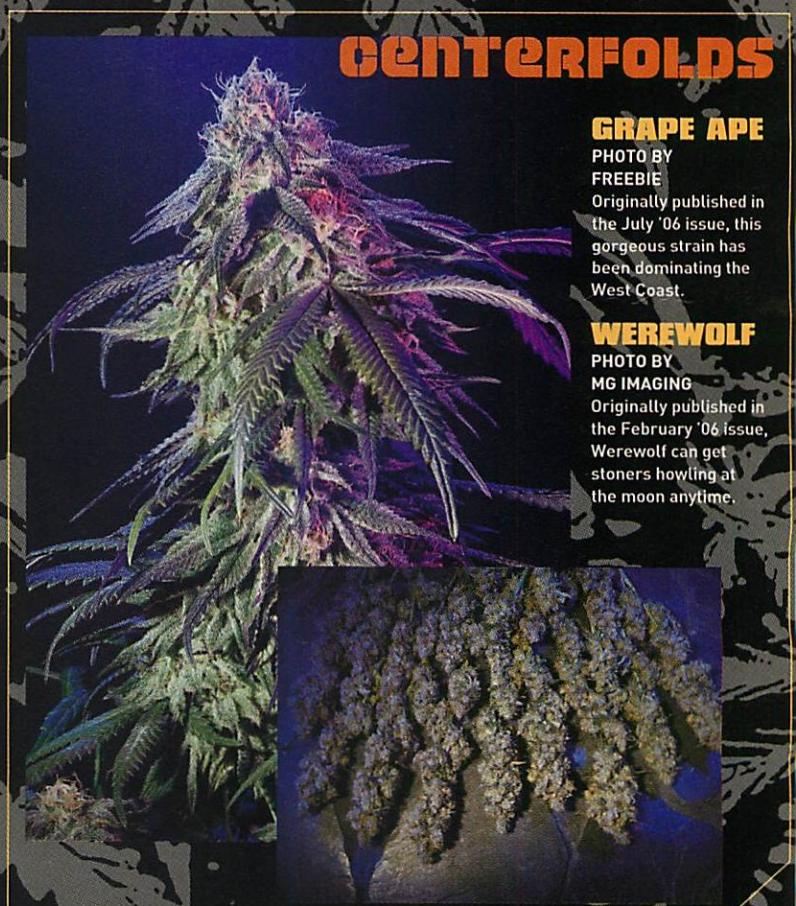
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CENTERFOLDS

GRAPE APE

PHOTO BY
FREEBIE

Originally published in the July '06 issue, this gorgeous strain has been dominating the West Coast.

WEREWOLF

PHOTO BY
MG IMAGING

Originally published in the February '06 issue, Werewolf can get stoners howling at the moon anytime.

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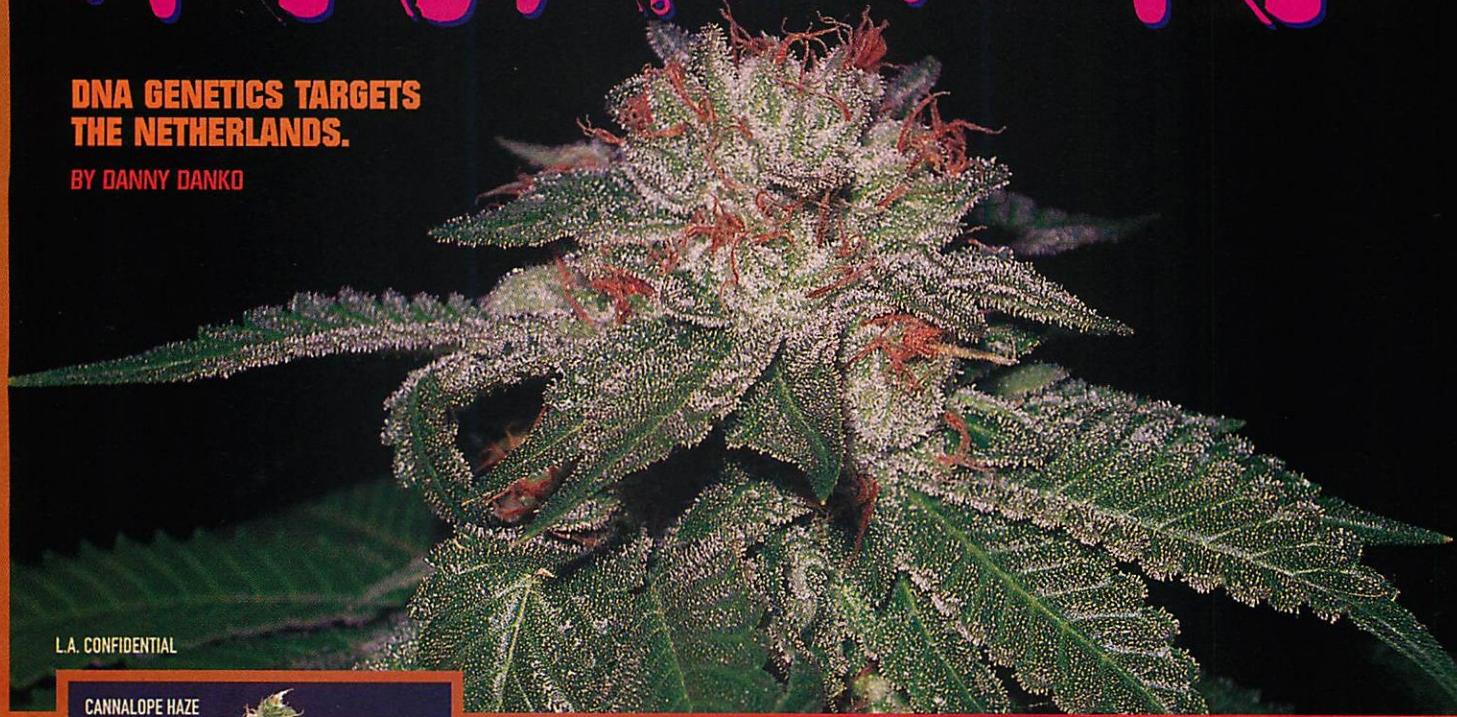
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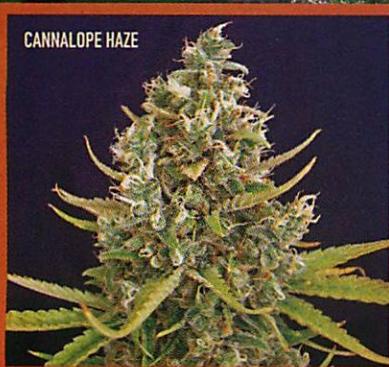
CALI STRAIN INVASION

DNA GENETICS TARGETS
THE NETHERLANDS.

BY DANNY DANKO



L.A. CONFIDENTIAL



The boys of DNA Genetics burst onto the seed scene with a third-place victory in the Seed Bank *Indica* category of the 2004 Cannabis Cup with a superb strain called L.A. Confidential. Their Cannalope Haze wasn't too shabby either, prompting many a judge to vape themselves silly at the DNA booth. I sat down to talk with "D" and "A" to find out a little more about these two guys from California who brought their collective seeds and wisdom to Amsterdam and dove into the profitable but precarious cannabis-breeding business.



IN

How did you guys get started in the cannabis community?

DNA: We started out growing in the late '80s in our hometown of Hollywood—or, as we say, Hol-lyweed—California. There were always a lot of original and exotic herbs in our area. We collected seeds from friends, family and, of course, those rare bag seeds from the best weed we could get at the time. In 2002, for our own safety in a changing political climate, we decided to move our operation to the Mecca of cannabis, Amsterdam.

How does the Cali herb scene differ from the Dutch situation?

When we first got here, we were baffled by the lack of quality weed. It's here, but you really have to look to find true quality. A lot of the commercial bud in Amsterdam isn't cured or flushed properly. Maximizing money is the motivating factor, limiting the true potential of much of the pot. It seems silly to grow a plant for three months and dry it in 48 hours. We're all about quality control; even the best strains can be abused and made to look and taste like crap.

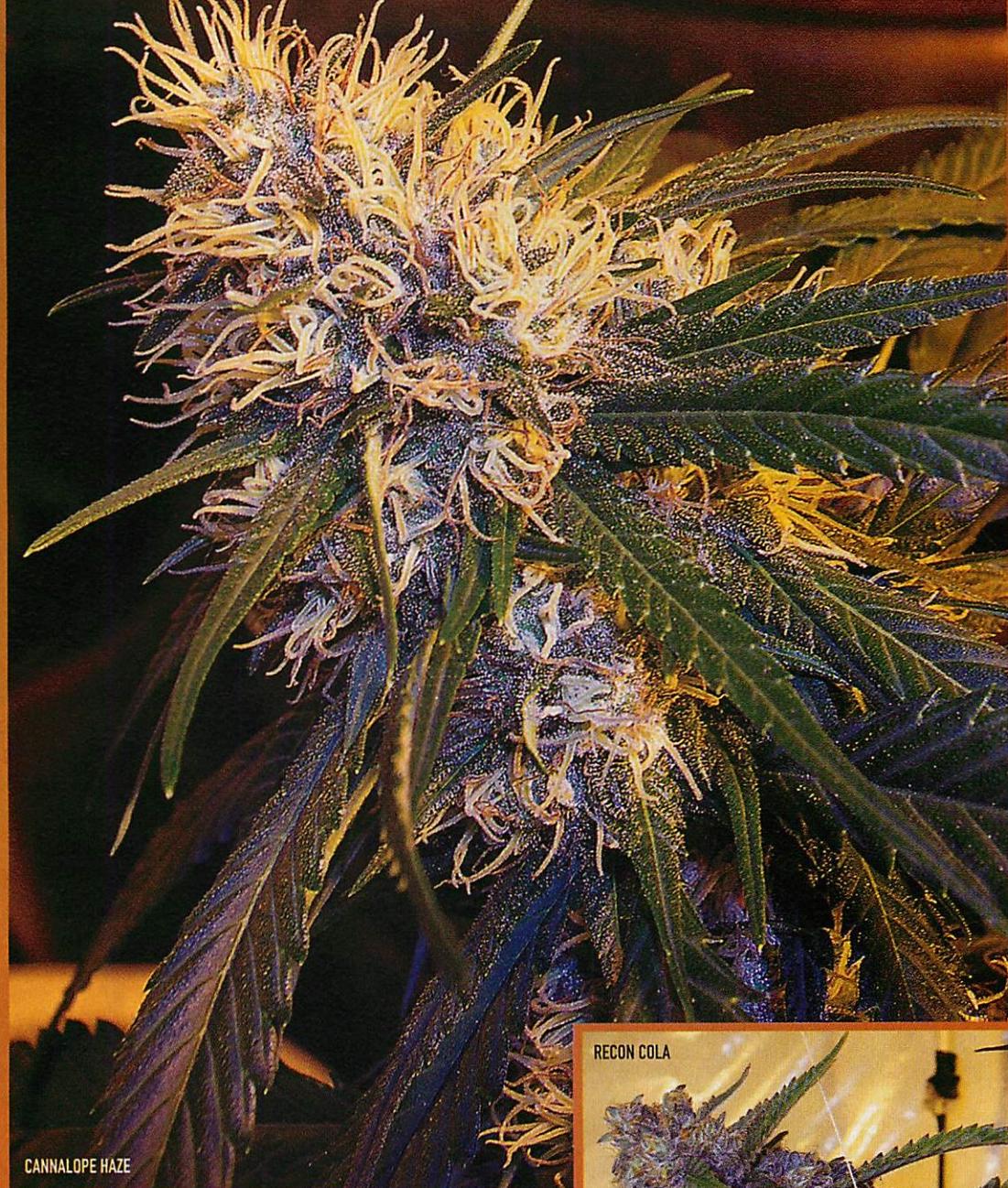
What are your preferred methods of growing?

We grow in every medium—soil, hydro, coco and lava rocks. Soil definitely adds more taste and sweetness. We get great results from several methods, but our head stash is grown in soil mix. Our mother plants thrive in Aqua Farms without a lot of maintenance. Large mothers in soil require daily watering and care.

What about nutrients?

After a few years of trying to work with the limited supply of organic nutrients available in Holland, we've decided to import the American Agritech line, including Pure Blend Pro, Liquid Karma and Sweet.

When breeding, how many plants need to be grown out to



CANNALOPE HAZE

find a good mother?

We select from at least 100 seeds to find one or two mother and father plants—sometimes much more.

How did it feel to win third place at the HIGH TIMES Cannabis Cup in 2004 for Seed Company Indica?

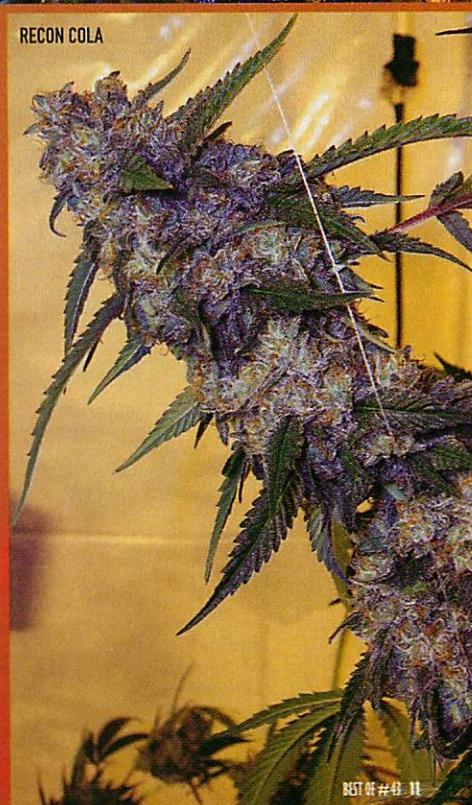
It felt like winning first place to us. We'd never entered a competition before and were up against seed companies that had been there since the start of the Cup. We knew we had special genetics, but it was an amazing surprise and thrill to be called onstage.

What are your plans for the future of DNA Genetics?

We're going to keep breeding and stabilizing our strains. We're opening a shop in Amsterdam on Sint Nicolaasstraat 41. We're pleased to introduce the European cannabis community to the great Botanicare products from American Agritech, and we want to win many more Cannabis Cups.

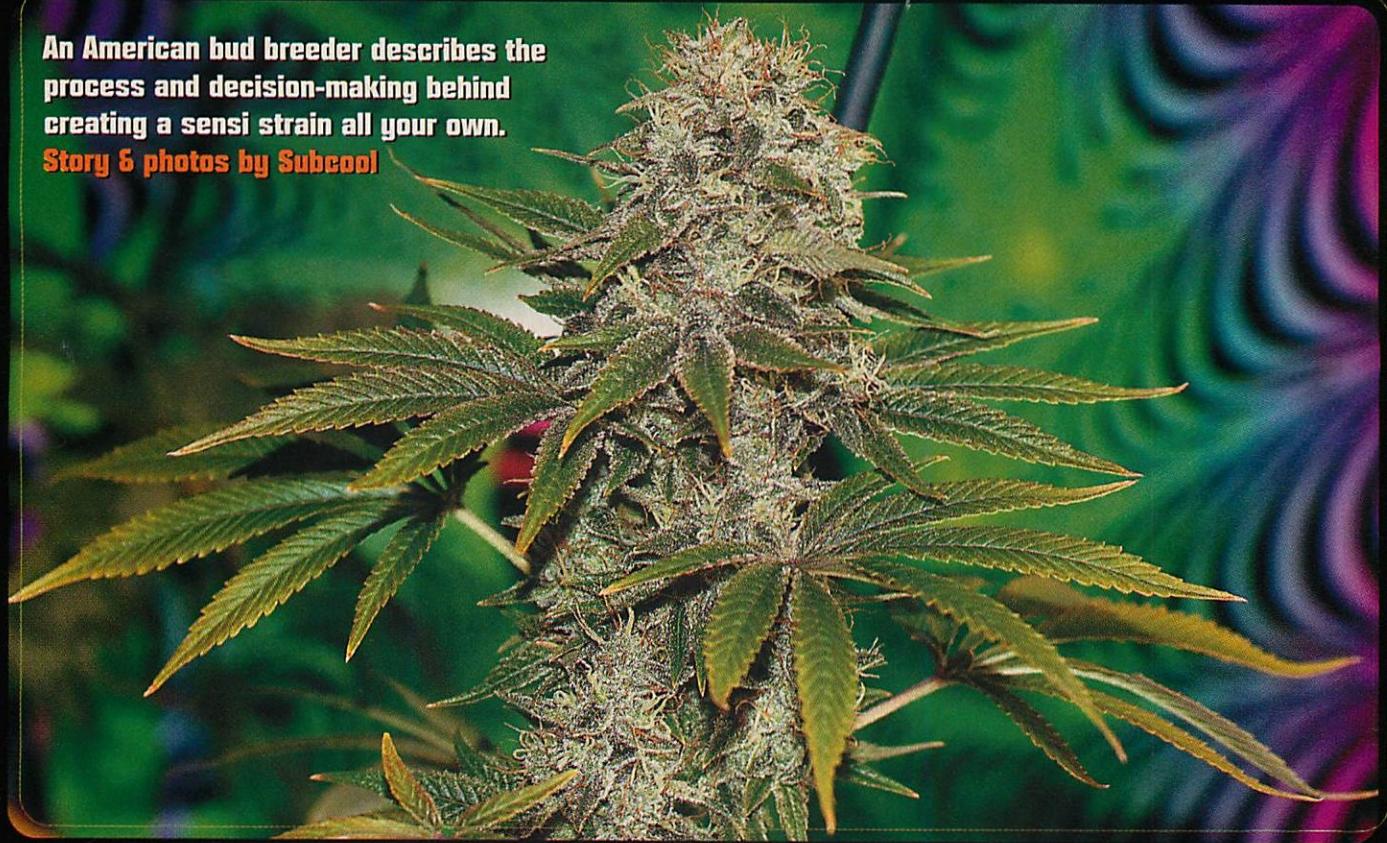
By the way, it's a great honor to be all up in HIGH TIMES. We've been reading it since we were kids, and now we're in it! *

Purchase DNA Genetics seeds at the DNA Shop in Amsterdam (Sint Nicolaasstraat 41) or Flying Dutchman, Homegrown Fantaseeds or Pollinator Co. DNA strains are available to smoke at the Grey Area Coffeeshop.



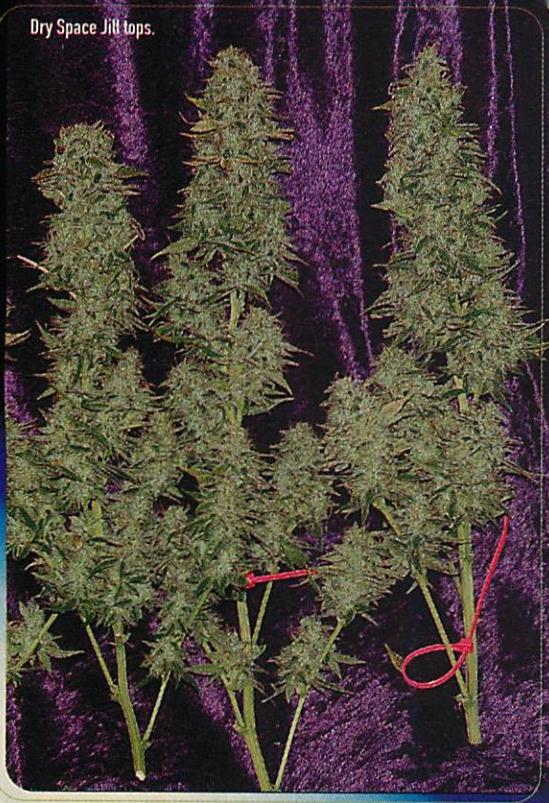
RECON COLA

An American bud breeder describes the process and decision-making behind creating a sensi strain all your own.
Story 6 photos by Subcool



the making of space juice

Dry Space Jill tops.



Recently, I decided to start some Space Queen seeds that I'd been stashing away for many years. Vic High originally created the Space Queen by crossing his Romulan and Cinderella 99. I was never a huge fan of Romulan, though I liked the exotic flavor of Romberry. My goal was to find a new phenotype with excellent flavor and high among the offspring of his seeds.

My partner MzJill and I started the Space Queen to finally give this strain a run organically. We chose the best four males and the best four females. I'll catch some heat from some of the larger-scale breeders for using so few plants to select from, but this was the only pack I had, and the genetics were all top-notch.

The seedlings were labeled and photographed each week to record their progress. Resin began forming on the stalks and the undersides of leaves extremely early. By week three of the flowering stage (12/12 light/dark photoperiod), each female had taken on wonderful pineapple, lemon and mango fragrances.

We were looking for the recessive drug traits in our males, not the dominant hemp traits. Bud structure on a male is a good indicator of quality—and, as you can see, our male had nice, tight clusters. You can also see resin blobs on the empty male stamens. I've never previously seen this type of resin on a male plant.

The four female plants were labeled and described as follows:

Phenotype A - Smallest overall, with a funky, semirotten smell.

Phenotype B - Most resinous, nicknamed Frosty Queen.

Phenotype C - Best internodal spacing and largest dense buds. A candy-sweet aroma.

Phenotype D - Smelled like a sweet, cherry-flavored Jolly Rancher candy.

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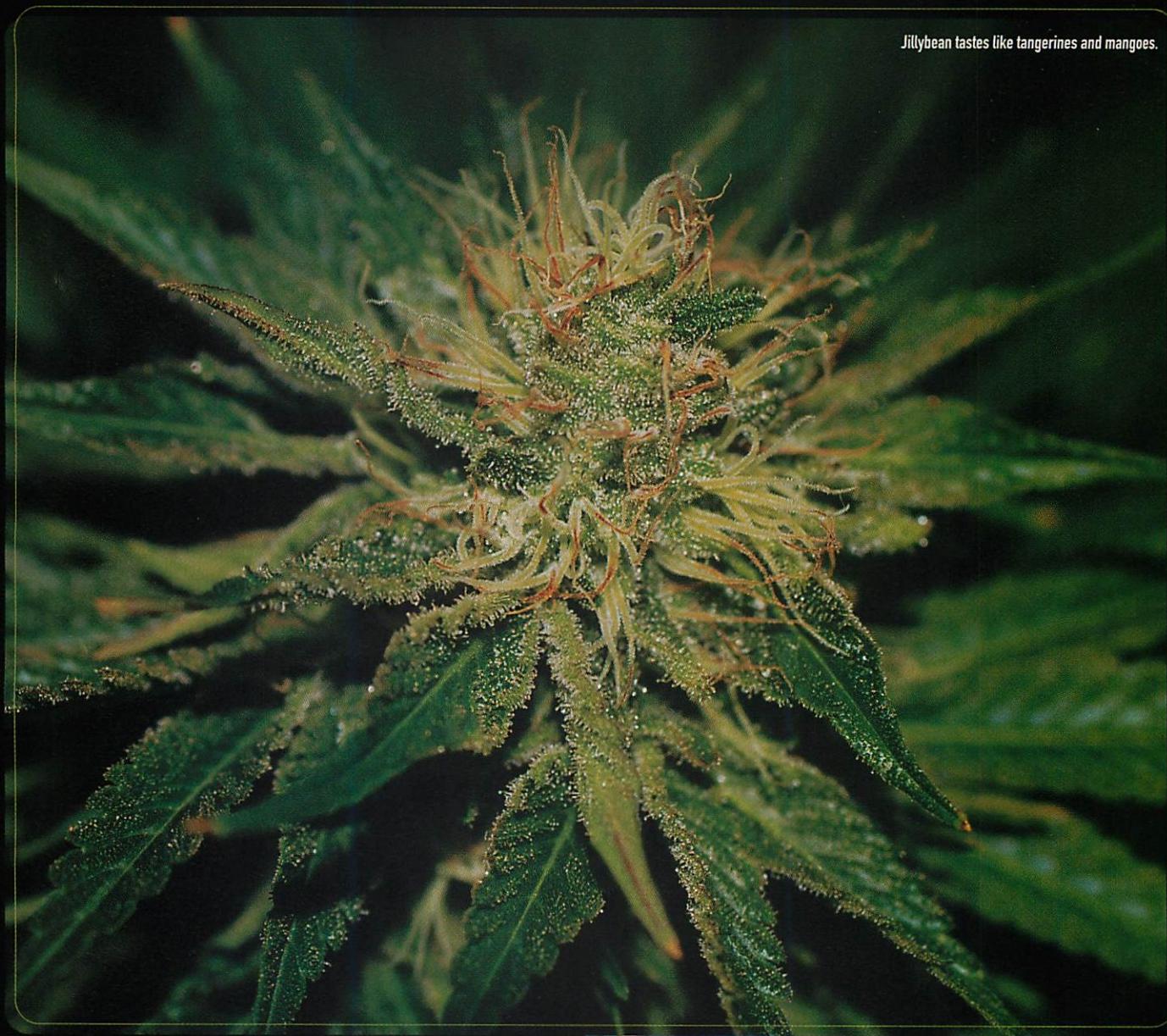
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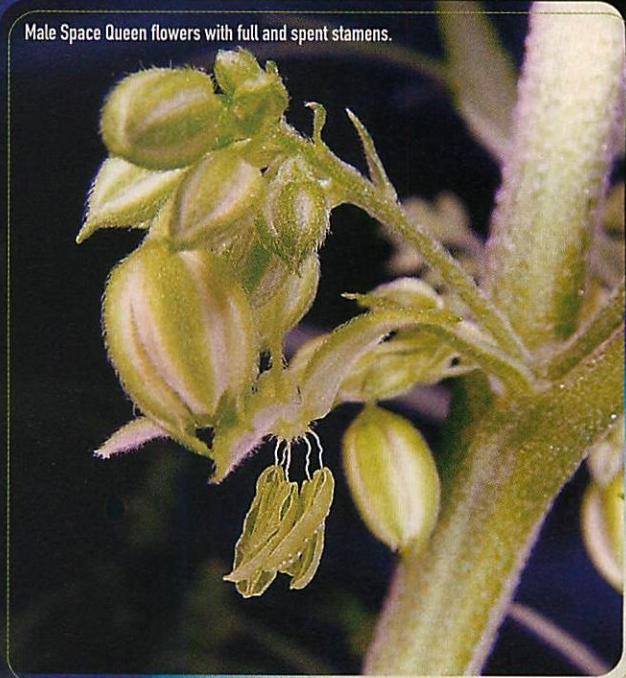


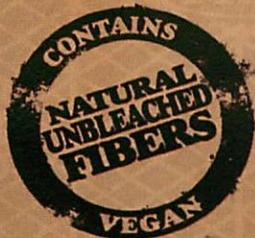
Using our chosen male, we waited for pollen to release from the male flower pods and collected it. Then we gently applied it to the four flowering females in their third week of blooming. They quickly shifted from budding to forming seeds, and we harvested the seeds a few weeks later to begin our project.

The females we popped from the seeds grew fast, and as they entered the flowering period MzJill selected phenotype C to be the best. Her feelings were based on the tight internodal spacing and the plant's overall appearance. As they continued budding, phenotype C still remained MzJill's pick of the four. Phenotype B was the smallest and appeared to have the most resin. We named it Frosty Queen because it was over the top, with raised trichomes forming all the way to the leaf edge and tip. This was our most photogenic plant. We named phenotype D Jolly Rancher. It was the strangest of the bunch: It exhibited a hint of cherry, as well as extremely red pistils that really stood out as the harvested colas dried. My personal favorite of our four Space Queen phenotypes was A. It was less fruity than B and C and smelled of slightly rotten fruit, a pungency mixed with citrus tones. This phenotype was a lower yielder but still worth more investigation.

MzJill was completely right about phenotype C. It became a tremendous plant with large, dripping colas that started "dreading" (creating foxtails) after day 50. Smelling a lot like Cinderella 99, the plant had a sweet scent that reminded me of sour Granny Smith apples cooked down in vanilla. It had the highest yield, with four massive heads that looked like showcase nugs. As phenotype C started curing, the buds took on a candy-like aroma with more hints of sour apple. It produced tremendous lime-green buds with vivid reddish-orange hairs, all accented with brilliant resin production. In the sunlight, the buds looked like sparkling diamond jewelry.

Male Space Queen flowers with full and spent stamens.





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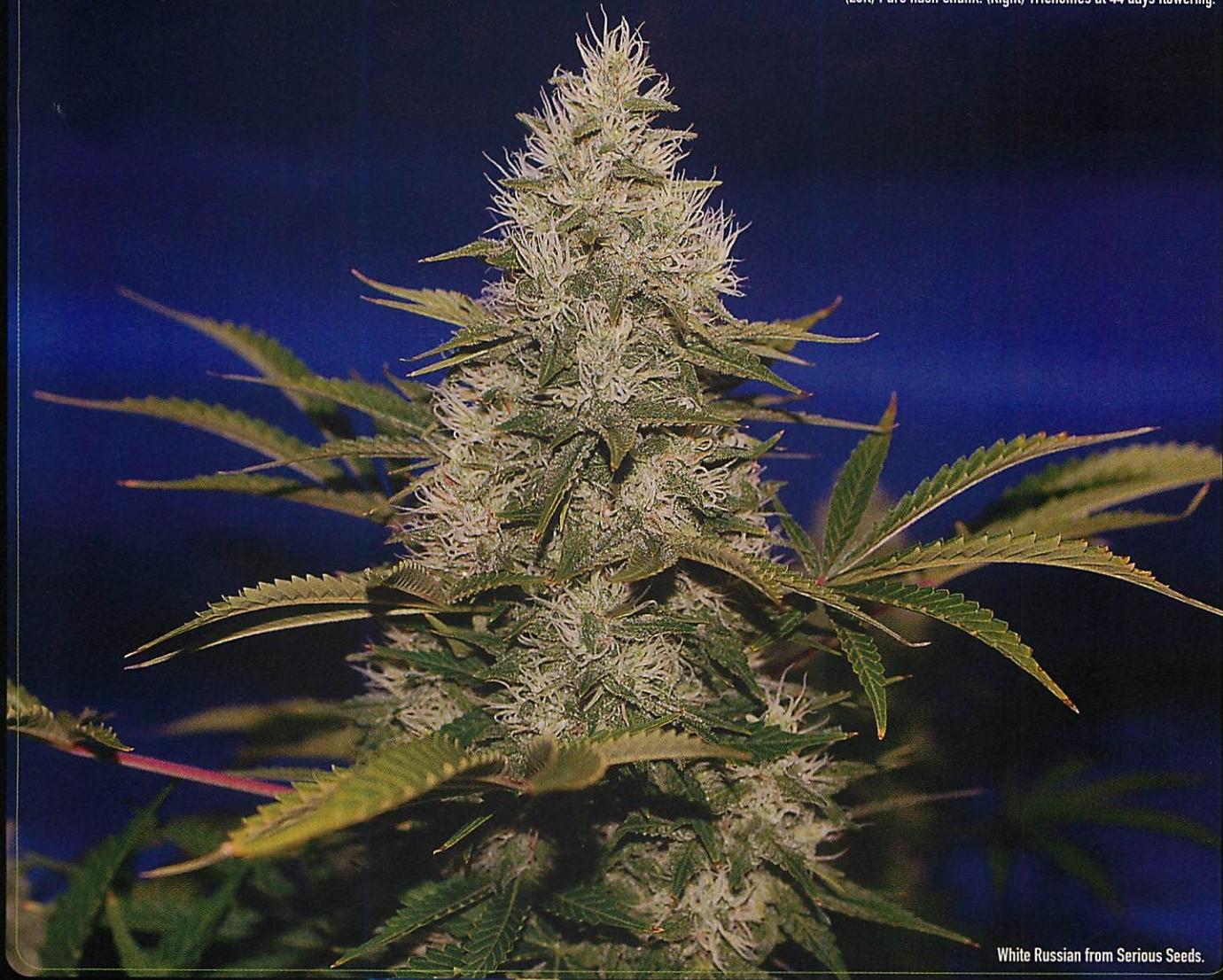
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THE MAKING OF SPACE JILL

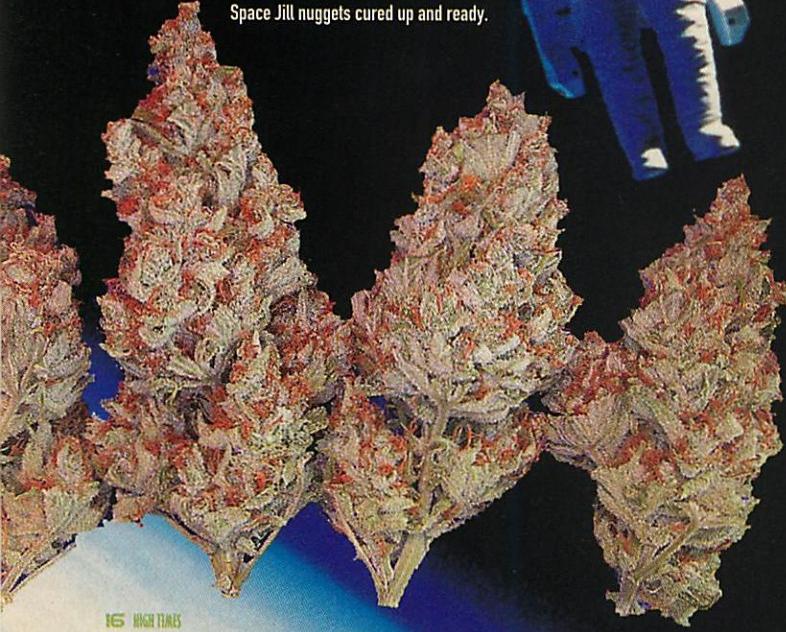


(Left) Pure hash chunk. (Right) Trichomes at 44 days flowering.



White Russian from Serious Seeds.

Space Jill nuggets cured up and ready.



After a 30-day cure, the unique cherry smell of phenotype D had mostly faded. Though the buzz was extreme, it didn't measure up to the other three plants and was culled from the group. Phenotype B was too small to keep permanently, but it made for a great head stash and produced amazing cream-colored kif. I still like the flavor of phenotype A, but it grows like a vine and is a bit hard to manage, so I'll make a decision on this one in time. Phenotype C will be in our garden for a long time and is used as our P1 mom for our Space Queen F2 seed project, a.k.a. Space Jill.

As it stands now, MzJill has adopted phenotype C as her head stash of choice. I'm still a huge fan of phenotype A, but it's not getting any larger on the second run through the flower room. It matures about seven days faster than phenotype C, which is good, but not the most important determining factor. Phenotype C is just an all-around killer plant, yielding large, dense buds encrusted with resin. It exhibits a very potent high with a smooth, candy-flavored smoke. I'd definitely recommend giving this one a run. I'm not sure if there's any of Vic High's original Space Queen still available, but we'll be releasing our Space Jill F2s sometime this year. *

Subcool, MzJill, SunyCheba and BadBoy (a.k.a. Team Green Avenger) can be found on breedbay.co.uk. Subcool seeds are available at cannaseur.com.



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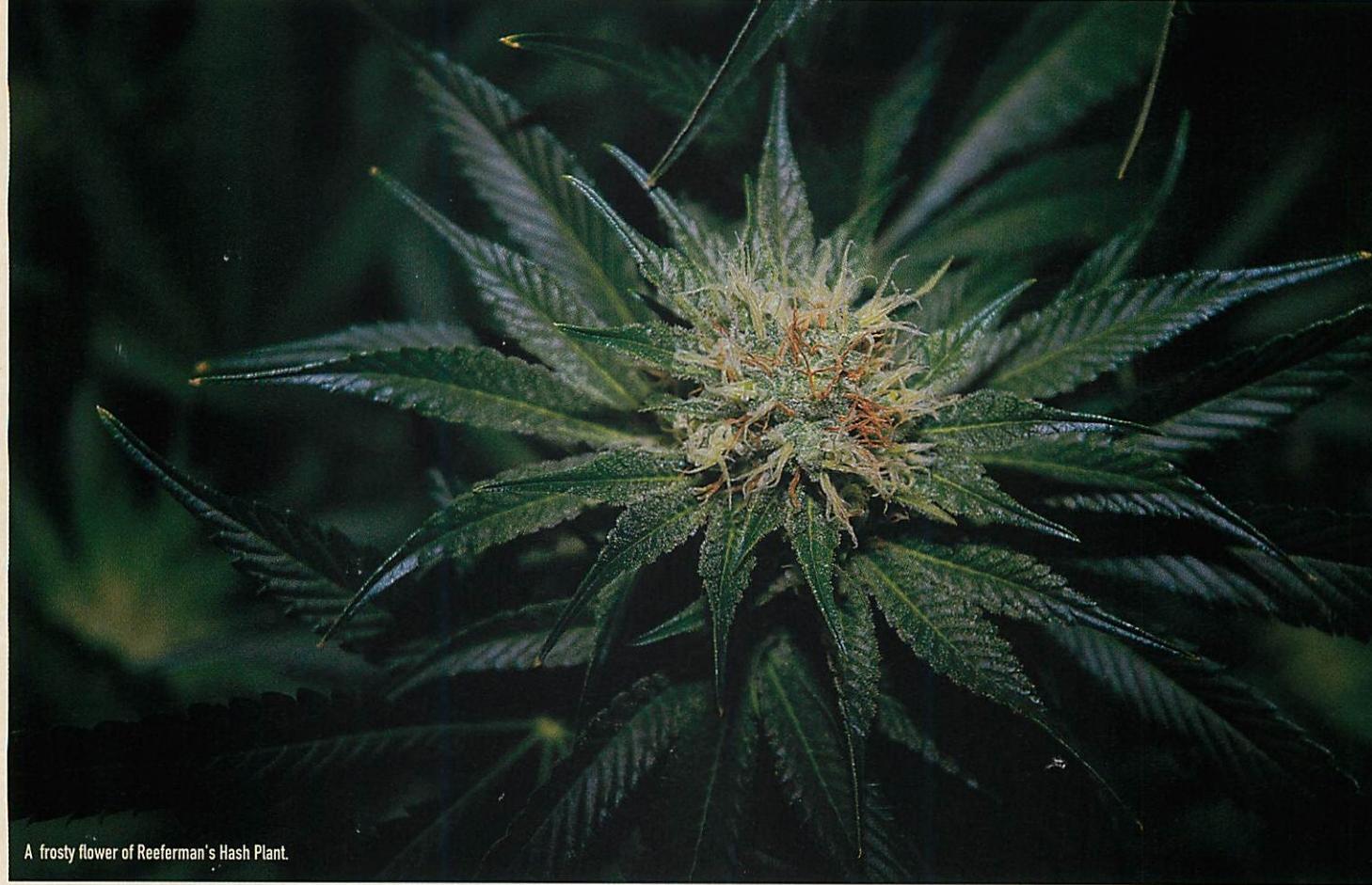


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A frosty flower of Reeferman's Hash Plant.

reeferMAN A NEW BREED

A VISIT TO BREATHTAKINGLY BEAUTIFUL VANCOUVER ISLAND PROVIDES THE PERFECT BACKDROP FOR A REVEALING LOOK INTO THE MIND OF A CANNABIS CUP-WINNING SEED BREEDER CONTINUALLY WORKING TOWARD PERSONAL REDEMPTION AND DEDICATED TO THE PRESERVATION AND IMPROVEMENT OF THE MARIJUANA GENE POOL.

STORY AND PHOTOS BY DANNY DANKO

I first met Reeferman at the 2004 Cannabis Cup in Amsterdam and was instantly humbled by his breeding knowledge and pure love of cannabis. Having collected strains from around the world for over a decade, Reeferman had previously chosen to keep a low pot profile, preferring to let others take the spotlight. That year, however, he decided to enter the Cup for the first time and shocked the Dutch seed-breeding establishment by winning first place in the Seed Company Sativa competition. His entry, Love Potion #1, a throwback strain reminiscent of the legendary Colombian pot from the 1970s, was truly the talk of the Cup.

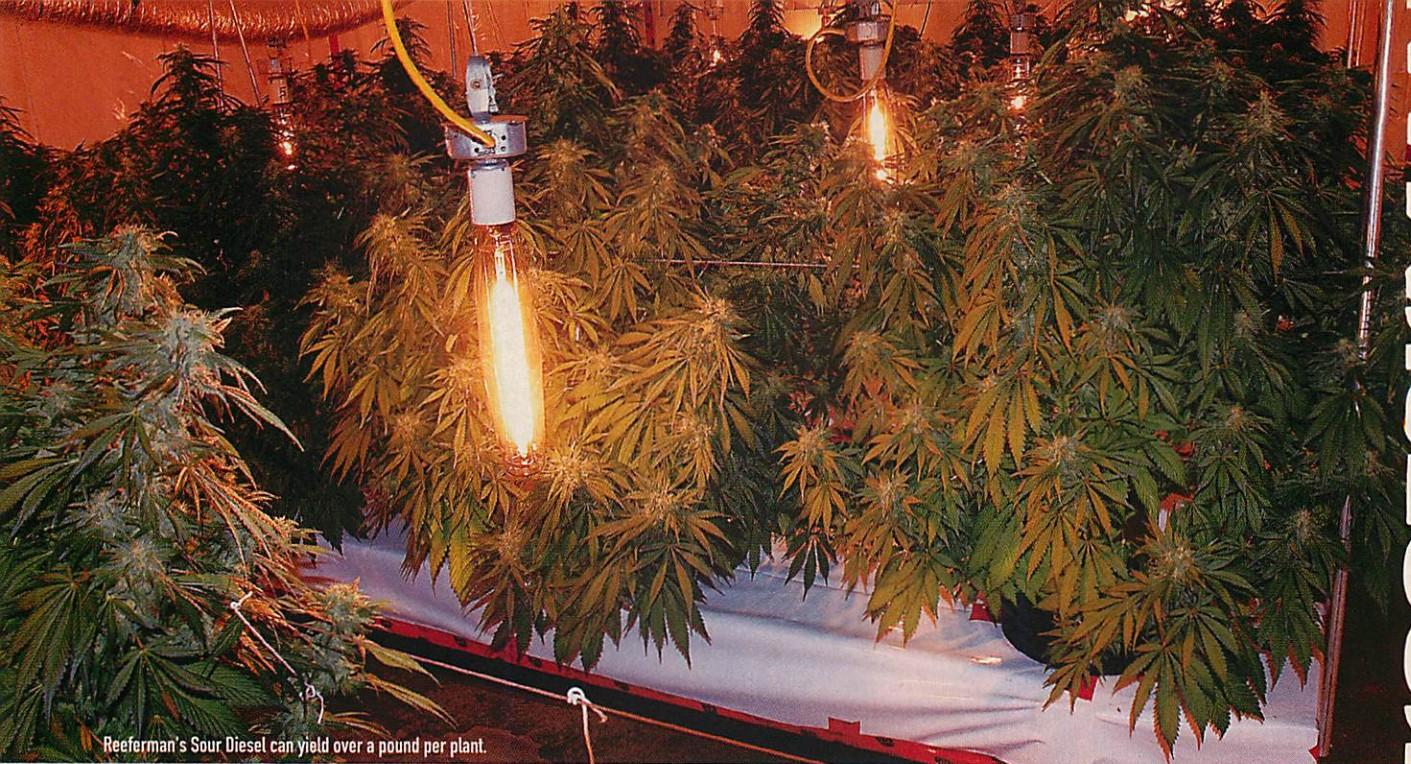
Reeferman also told me that he was born into a strict, extremely right-wing family and had been a member of white-supremacist organizations in his youth. I was immediately taken aback; the man sitting in front of me seemed incapable of such hatred. He went on to explain that smoking and breeding marijuana had shown him the light and taught him that his ingrained racism was wrong. Reeferman said that he renounced his former racial intolerance and has given speeches at colleges and schools to discourage hate speech. He took full responsibility

for his past and sounded very genuine. I vowed to pay a visit to beautiful Vancouver Island to learn more about this complex man.

Several months later, the opportunity to interview Reeferman arises, and I find myself on a tiny plane flying through the Canadian mountains. Reeferman is there upon my arrival with spliffs in hand, ready to discuss anything and eager to clear the air surrounding his former life.

I ask him about the epiphany that led him to abandon hate and racial oppression. He points to a powerful psychedelic experience that showed him the light: "One evening I took DMT, and it all became as clear as day. I was an asshole. I saw the Devil, and he was me."

Reeferman also credits reggae as a catalyst for his change of consciousness. "Listening to the music of Bob Marley, the Jamaican prophet born to a white father and black mother, enlightened me to the idea that nature abhors a hereditary vacuum," he asserts. "The concept of hybrid vigor—that the combination of two genetically different types can introduce a new, more vigorous breed of cannabis—was not lost on me. People as well as plants need to mix their distinct genes together in order for true evolution to take place and for new and interesting types



Reeferman's Sour Diesel can yield over a pound per plant.

to be discovered." On his Web site, Reefer Radio plays nonstop roots reggae and other conscious tunes that reflect Reeferman's belief that music and marijuana have the power to heal cultural wounds.

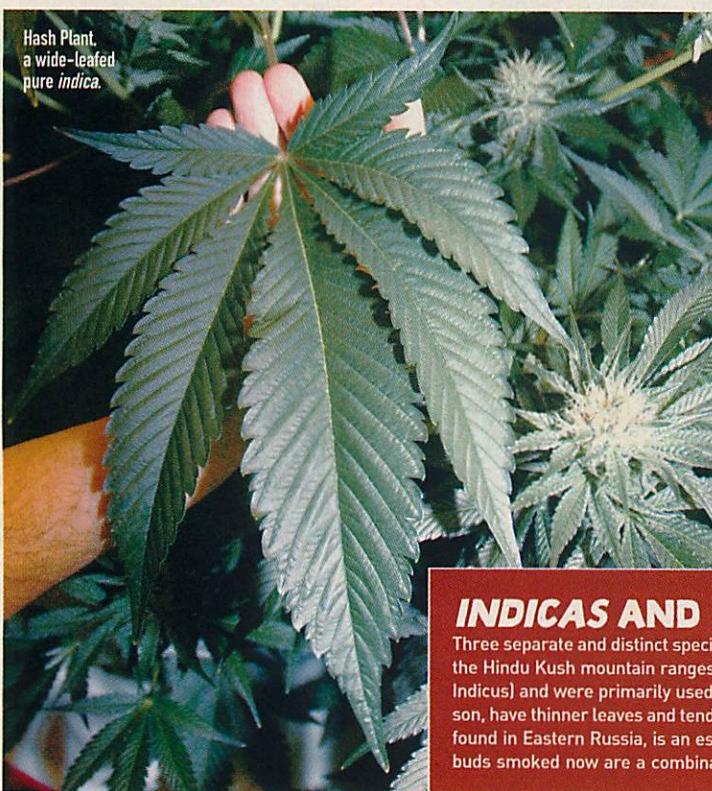
Reeferman's marijuana-breeding experiments began in the Canadian wilderness as Prairie Seeds in 1992. Over the next decade, he quietly earned renown for rare *sativas* and stable land-race strains unavailable from other seed banks. This isn't to say that Reeferman's *indicas* don't pack a punch; strains like Crystal Ship and King's Kross are superb yielders with plenty of commercial potential. While on Vancouver Island, I person-

ally witnessed giant lime-green bushes of Reeferman's Hash Plant growing hydroponically that would each yield well over a pound.

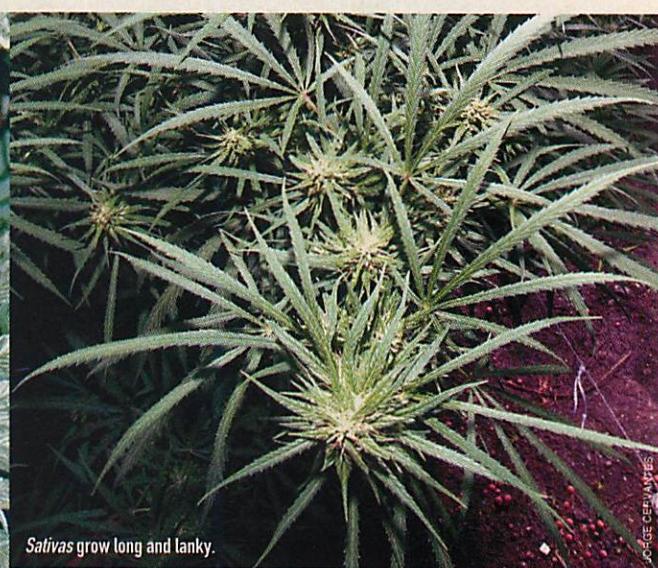
It's the "old-school" specialty varieties, however—such as Burmese, Thai, Congolese and the terrific Colombian Punta Roja—that are of most interest to the *sativa* lover. These strains won't soon be embraced by greedy growers who prefer only the fastest-flowering or highest-yielding plants. *Sativas* appeal to connoisseur and hobbyist growers with a bit of patience and a more diverse pot palate. Reeferman professes his love for smoking *sativas* as a spiritual experience. "I prefer *sativas* because they bring me closer to the spirit of the Creator," he explains

while rolling up a bomber of Panama Red.

Aesthetically speaking, *sativas* sometimes look more like a HIGH TIMES centerfold from the '70s than the frosty and dense *indica*-dominant strains popular today. Wispy and thin, most *sativas* have an undeserved reputation as being harder to grow than their stocky counterparts. To the contrary, plenty of Reeferman's *sativas* finish flowering in less than 10 weeks and fill out huge colas when given proper light and care. Though not always as pretty to look at, anyone who considers himself (or herself) a true pot aficionado should always have several jars of pure or close-to-pure *sativas* stashed away.



Hash Plant,
a wide-leaved
pure *indica*.



Sativas grow long and lanky.

JUDGE CERVANTES

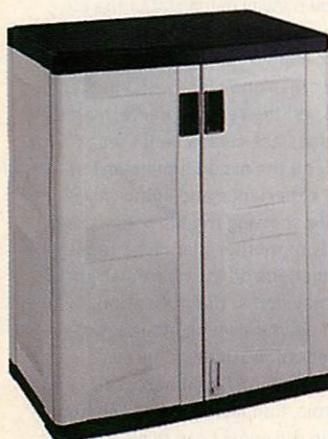
INDICAS AND SATIVAS

Three separate and distinct species of cannabis exist: *indica*, *sativa* and *ruderalis*. *Indicas* originate from valleys in the Hindu Kush mountain ranges between Afghanistan and Pakistan (ancient Greeks called them the Caucasus Indicus) and were primarily used to make hash. *Sativas*, from equatorial regions, require a longer growing season, have thinner leaves and tend to stretch during flowering; some have been known to reach 30 feet! *Ruderalis*, found in Eastern Russia, is an essentially useless low-THC variety that flowers automatically. Almost all of the buds smoked now are a combination of *sativa* and *indica* in varying ratios, usually favoring the *indica* qualities.

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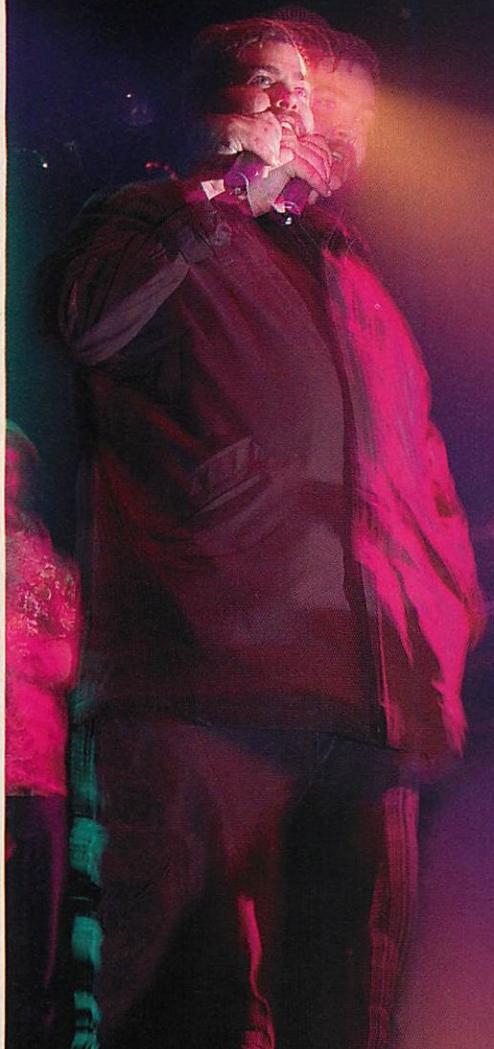
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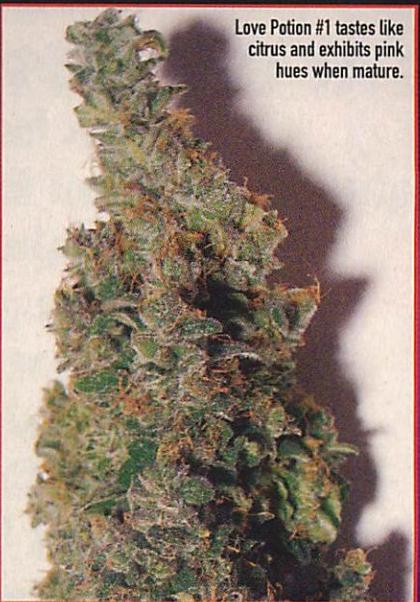
reeferMAN

Reeferman accepts his Cannabis Cup in Amsterdam.



reeferMAN'S GROW TIPS

- ★ Use a "flip-board" to switch between different bulbs running off the same ballasts. This way, you get the most out of your ballasts without ever having to turn them off. (This requires two flowering spaces.)
- ★ Outdoors, dig a deep trench near your plants and line it with plastic to collect rain to use for watering. Cover with burlap, camouflage netting and a few rocks. This will reduce glare that can be seen from above and doubles as a nonviolent booby trap for pests and rippers.
- ★ Place a copper square pipe (four small lengths of copper pipe connected by copper elbows into a square) around the base of outdoor plants to prevent slug damage. They can't cross the copper barrier.
- ★ For powdery-mildew problems, burn sulfur in a sulfur vaporizer.
- ★ Keep indoor temps around 65°F during the night cycle. Never go above 90°F with lights on.
- ★ To discourage deer, place slices of Irish Spring soap near your clandestine crops.
- ★ Food-grade (35%) hydrogen peroxide works great against insects, fungi, mold and botrytis when diluted at 5 ml/liter. Use a compressor with a paint spray gun to apply to tops and bottoms of leaves.
- ★ Panther urine, available from some gardening retailers, scares away deer, rabbits and pretty much anything else with legs.
- ★ Be patient when growing *sativas*; they're usually light feeders, so lay off the nutes.
- ★ Keep jars of past harvests curing in a cool, dark place.



LOVE POTION #1

Reeferman on his 2004 Cannabis Cup-winning *sativa*: "It's my personal favorite at the moment. The daddy was Santa Marta Colombian Gold and the mom is an original Airborne G-13 female selected for the *sativa* phenotype. LP1 is easier to grow than most *sativas* and finishes in just nine weeks. I say LP1 has a 2.5 times stretch from a 12/12 light cycle, meaning it will stretch for the first two weeks of flowering but then stops and fills out. It's also a high yielder for a *sativa*-dominant plant and tastes like Lemon Pledge. 'The Nose' in Amsterdam wistfully describes Love Potion #1 as having that classic Colombian flavor and smell, 'like the middle of those old Colombian bricks we used to get'—and he would know. The seeds I sell are from the Cup-winning LP1 mother back-crossed with the original male Colombian father."

Reeferman selects his breeding stock from a wide variety of offspring to ensure that his genetics are the cream of the crop. Hundreds of perfectly good plants get thrown away in pursuit of the elusive phenotype. Unlike the results of so-called "pollen chuckers" who just cross one plant with another and sell the results, Reeferman's crosses are clearly well thought out and the product of his extensive experience and know-how. While showing me his astonishing array of mother plants, he makes predictions on the characteristics he may find in their offspring.

I ask him which other seed breeders' work he admired.

"Chimera, Shantibaba, Dr. Atomic, Cannabiogen and Ace from Spain are some I can think of right off the bat," he says. "There's also a whole bunch of hacks out there, too. Internet seed-auction sites pave the ground for hacks to do their work."

What's a hack?

"Hacks take other people's work and make a mess, genetically speaking. They buy elite strains and then work them into the ground making wild crosses without forethought," Reeferman explains. "The fact remains that much of the seed stock

'I PREFER SATIVAS BECAUSE THEY BRING ME CLOSER TO THE SPIRIT OF THE CREATOR.'

available to the general public right now needs improvement. I hope to lead the charge for the 21st century."

The future of the Reeferman franchise includes a new enterprise called the Global Cannabis Co-op. With the GCC, Reeferman intends to distribute some personal-favorite seeds from other breeders that he feels have been overlooked by more commercially oriented retailers. He hopes to showcase the best Canadian and Spanish breeders as well as his own cheaper versions of many of today's popular strains. His first offering, Breeder Bob's Prince George (PG), is a super-early outdoor strain that finishes flowering in mid-August. Along with launching the GCC, Reeferman anticipates another strong showing at the 18th Cannabis Cup in November, where his strains will be available for mass consumption at Barney's Breakfast Bar. *

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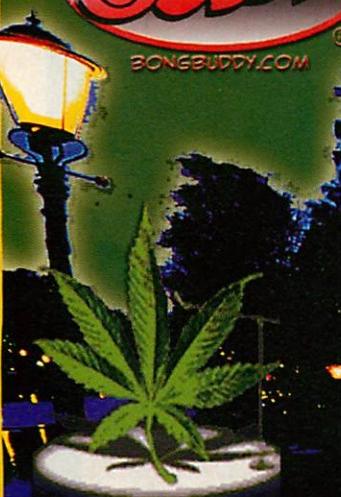
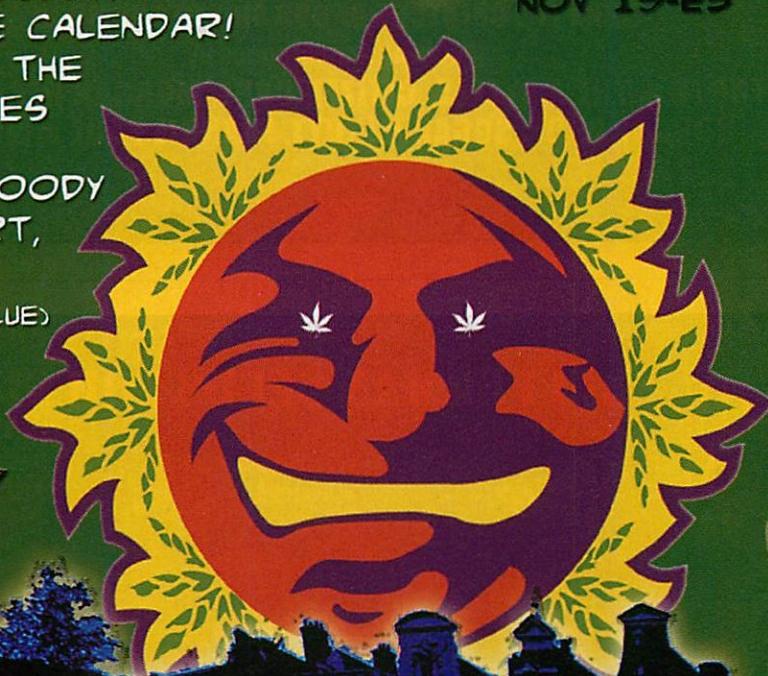
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The story of a war-veteran helicopter pilot who never got higher than when he smoked the fabled Vietnamese strains while "in country." Decades later, he seeks out these same plants to grow for himself at home and to smoke through his retirement.

Story & photos by Dr. Dalat

HEAVEN OF DA LAT

Forty-two years ago, I was a 20-year-old fresh-faced and very naive young man sent to Southeast Asia by the US government—caught up, like so many of my generation, in the wide, sweeping net of the final military draft of the last century and sent to fight the war in Vietnam. As a helicopter pilot, I flew all over the central highlands of that country, circa 1969-71, and experienced much of the worst that man has to offer his fellow man, but also plenty of the best. One of my most remarkable memories was discovering a plantation of 30-foot-tall cannabis *sativa* trees in a very isolated province called Dalat.

Dalat at that time was way off the beaten path. Nestled between two mountain ranges at an altitude of around 4,500 feet and really only accessible from the air (I had a distinct advantage because of my air mobility), the region was rumored amongst the grunts to be the birthplace of Ho Chi Minh, North Vietnam's spiritual and political leader, and therefore off limits to the enemy Viet Cong. The truth of the matter was, of course, quite different. In reality, the VC used Dalat for R&R (rest and relaxation) for their troops and therefore, quite wisely, refrained from initiating any action in and around the province. In effect, both sides considered it an unofficial "no-fire zone."

While on one of my many fly-ins to Dalat City, I met the owner of the cannabis plantation—a wonderful older French gentleman who was always more than kind when it came to sharing his bounty. For our part,

those of us in the helicopter crews kept him well stocked with much-needed and hard-to-get staples and supplies that we would scavenge from the various US base mess halls and supply depots that we visited regularly.

The best of the *sativas* came from the highland areas of Vietnam, places like Ban Me Thuot and Pleiku, and were similar to the highland Thai *sativas* in almost all respects. The very best of all were grown in the province of Dalat—cultivated for centuries by the indigenous tribes of mountain people known as Montagnards (although in their language, they refer to themselves as "Human Beings"), these crops produced without a doubt the most remarkable and mind-expanding herb I've ever experienced.

Keep in mind that the Montagnard people are an ancient culture, with no real written record—only stories passed down from generation to generation. I recall most vividly sitting amongst the tribal chieftains and listening to them chant stories about "the beginnings of time" and how cannabis had been with them forever to guide them on their spiritual journey of pantheism. They have two words in their language for cannabis. The first translates loosely as "Path to the Gods." The second is used only if you smoke too much of this fine herb, and it describes the state of mind of someone who has done just that. It translates simply as "The Mind of God."

For many of us who served the "Masters of War" in those days, Vietnamese pot became our path to sanity, our lifeline. It was a simple yet very effective way of maintaining peace of mind amidst the chaos of the conflict—an escape from the horrendous reality of our daily lives. From 1964 to 1974, thousands of US soldiers came home from the war carrying as much of this "boo" with them as possible—introducing the exotic smokes of Southeast Asia to the world at large, the seeds of which would provide the main genetic building blocks for many modern strains of cannabis. Ask anyone who came of age during that time, and you'll notice a quick flash of the eyes as their mind recalls the experience of smoking "the jungle kind." Though often ridiculed by younger generations as the quaint musings of aging hippies, the sad fact remains that most folks younger than 45 simply have never experienced the mind-bending high of the pure land-race *sativa* strains of Southeast Asia.



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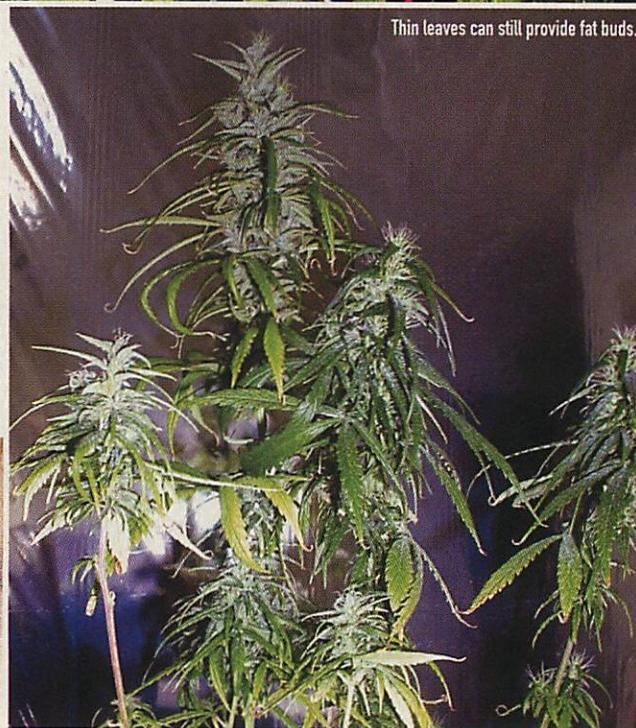
Vietnamese Dalat after 65 days flowering.

'Vietnamese grass is one of the most powerful, transforming herbs in the world. When I got high on that stuff, I began to understand that life is sacred, that life has great vibrancy.'

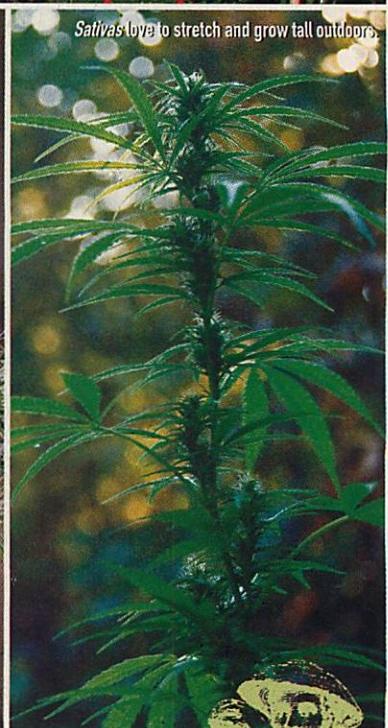
—Oliver Stone, filmmaker and Vietnam veteran.



Cured bud harvested after 15 weeks flowering.



Thin leaves can still provide fat buds.



Sativas love to stretch and grow tall outdoors.

SMOKING THE VIETNAMESE DALAT

Through a series of fortunate events, I have lately been reacquainted with the best of all the old-time smokes. A few years ago, a fellow veteran and compatriot revisited the very same Dalat province plantation where we used to go, and found—much to his surprise—the heirs of our old plantation friend carrying on the “family tradition.” My friend returned home with stories of wandering for hours through row after row of “trees the size of fence posts, with buds as big as a big man’s leg.” Luckily, he was able to bring back a generous supply of pure land-race Vietnamese sativa seeds of a variety not seen elsewhere in the world for over 30 years. Because of the seeds of friendship and good karma that we’d sowed years ago, I was the one he bestowed them upon, along with the mission of growing out our favorite grass—*Cannabis sativa ssp. dalatvietnam*, a strain now known worldwide simply as “The Dalat.”

In the wild, Vietnamese Dalat grows over 20 feet tall. This must be taken into account when bringing her indoors under lights. Pure sativas take much longer than typical *indicas* to flower and continue to stretch throughout the blooming period. You must use large pots—at least 10-gallon—and you’d be well advised to train the plants for multiple branches and keep them low (the Screen of Green technique works well). Most sativas have a somewhat undeserved reputation for producing light yields, but using proper training techniques, two or three Vietnamese Dalat plants under a 1,000-watt high-pressure sodium light can yield more than three pounds. And while it may take much longer to grow these plants out than the *indicas*, you’ll find that the high’s worth the hassle.

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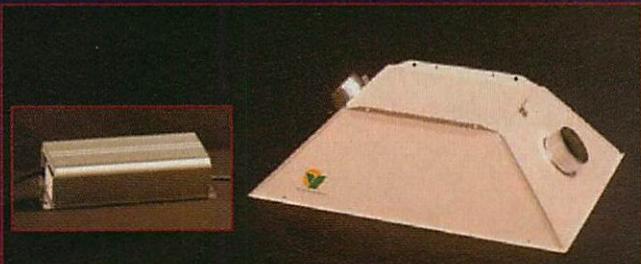


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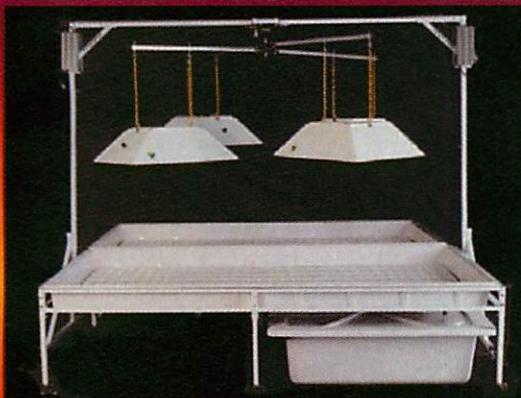
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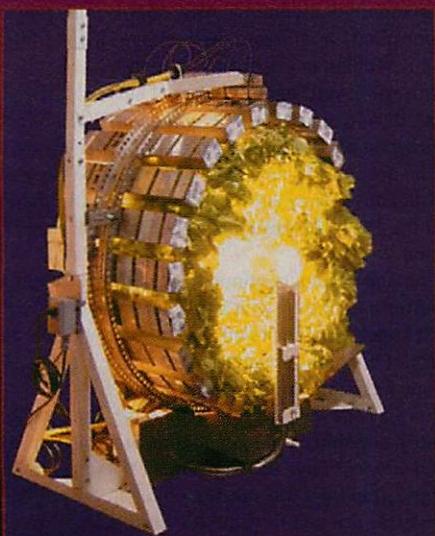


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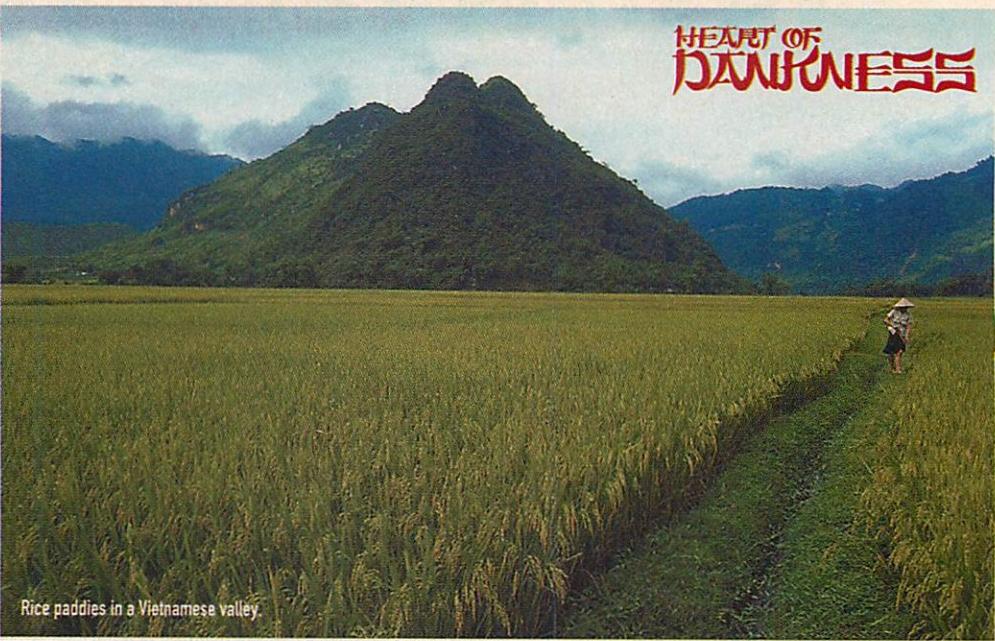
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A close-up reveals numerous glistening trichomes.

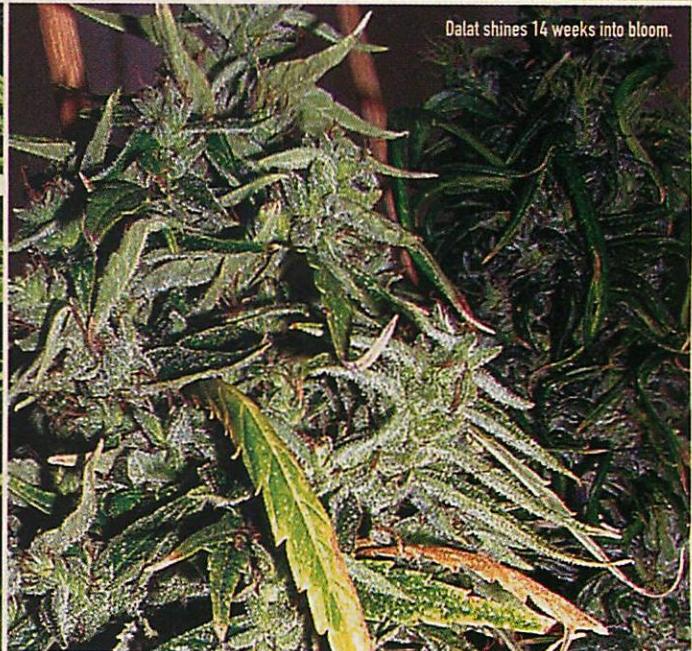


HEART OF
DA LATNESS

Rice paddies in a Vietnamese valley.



Sativas savor sunshine.



Dalat shines 14 weeks into bloom.

watch for early hermies. Pull any plants that aggressively show male flowers in the first month of blooming. After that, simply pull the male pollen sacs off your plants as you find them. Stay vigilant and you won't have to worry about seeding in your precious pot.

At 100 days flowering, you reach the first of several harvest windows for the Dalat, during which the THC will peak. If you miss it, the plant will start throwing off stacked calyxes and flowering again. The next window will be around 115 days, and final ripening happens between 126 and 140 days. They just keep packing on the weight. Peak potency will be at the 18- to 20-week point, but the earlier harvests will still blow your mind.

After harvesting and drying, continue to cure the Dalat buds in a jar. The flavors get better and better, so it's perfect for a long cure. At 90 days, the stuff will knock your socks off; at six months, it will flat out make you soar. While the plant doesn't create an abundance of bubble hash, what little you get is as flavorful as it is powerful.

Thankfully, there's renewed interest in growing and smoking these wild *sativas*, as more and more folks of all ages are starting to understand what us "old-timers" have been saying all these years about really getting "high." Don't get me wrong: I think all those fast-finishing commercial hybrids are just fine, but it's hard to improve on Mother Nature's finest. I like my *sativas* to be just that, and my *indicas* to be...well, hash, of course!

Begin the flowering period shortly after sprouting the seeds. As soon as several alternating nodes are visible (this should be within one week of germination), initiate a 12-hour-on/12-hour-off light cycle. You won't see flowers for several weeks, but be patient. All the while, you should be topping and training the main stem and side branches to avoid having them grow too tall, and taking advantage of your grow light's footprint.

It's important not to stress these plants. They're very sensitive to low pH and fluctuations in their temperature or nutrient levels. I stick to the old growers' maxim: "Feed weakly, weekly." Mild nutrient foods such as compost teas and fish or seaweed emulsions are a safe bet. Bat and seabird guanos are especially effective when properly diluted.

Also, be warned: Spider mites love *sativas* as much as smokers. If you see the telltale white spots on the tops of leaves—a sign of mites—mist the entire plant with miticides, making sure to spray the bottoms of the leaves. Keep the mites at bay later in flowering with natural neem oil or an organic leaf-wash spray. The Southeast Asian *sativas* are also known to be naturally hermaphroditic, so you must be on the



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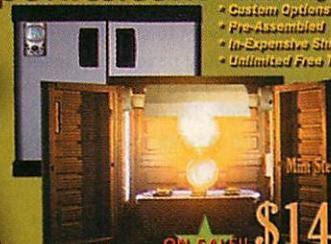
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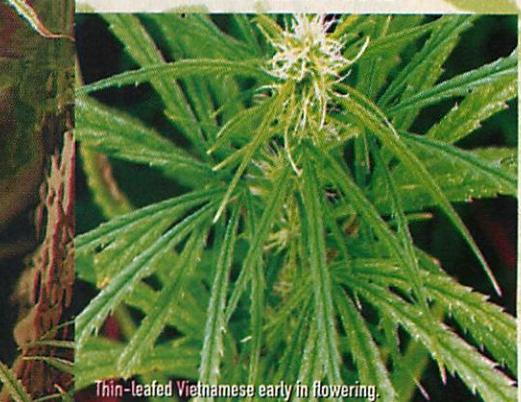
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HEART OF DALATNESS



Dalat buds are fairly compact and sticky. The smoke has a very sweet and potent aroma, an absolutely delicious smell.



Thin-leaved Vietnamese early in flowering.



Dried and cured Dalat tops.

Dalat colas continue to fill out for months.

SMOKING THE DALAT

For a *sativa*, Dalat buds are fairly compact and sticky. The smoke has a very sweet and potent aroma, an absolutely delicious smell—a bit like spearmint gum dipped in diesel fuel. The flavor's hash-like, yet sweet and mellow at the same time. It expands nicely in the lungs but would definitely not be classified as harsh.

Pure *sativas* like the Dalat have been known to induce paranoia, heart-racing and even mild hallucinations among unsuspecting puffers. The soaring "up" high inspires introspective musings and delirious giggling fits. Smart smokers use *sativas* throughout their busy day and save *indicas* for the evenings, when it's time to relax.

To me, one of the more desirable qualities of a fine *sativa* is that it enhances your natural perspective. If your reality is one of nervousness and fear, you may want to stay away from this strain. On the other hand, if you're pure of heart and mind, you'll never feel closer to true bliss than under the pure *sativa* influence. Smoke half a joint and you're ready to commune with nature—it's a very mind-altering and introspective high. There's no tiredness or heavy narcotic effect. Best of all, the Dalat high doesn't seem to have any ceiling—keep smoking and you continue to climb.

Is it the strongest pot you'll ever smoke...the Holy Grail? I don't know. Could I smoke only this one strain for the rest of my life? Most definitely. It's been just how I remembered it—smoking the kind Dalat *sativa* in Vietnam. A real *déjà vu* trip back in time...I can almost hear the "whoomp-whoomp-whoomp" of the choppers. *

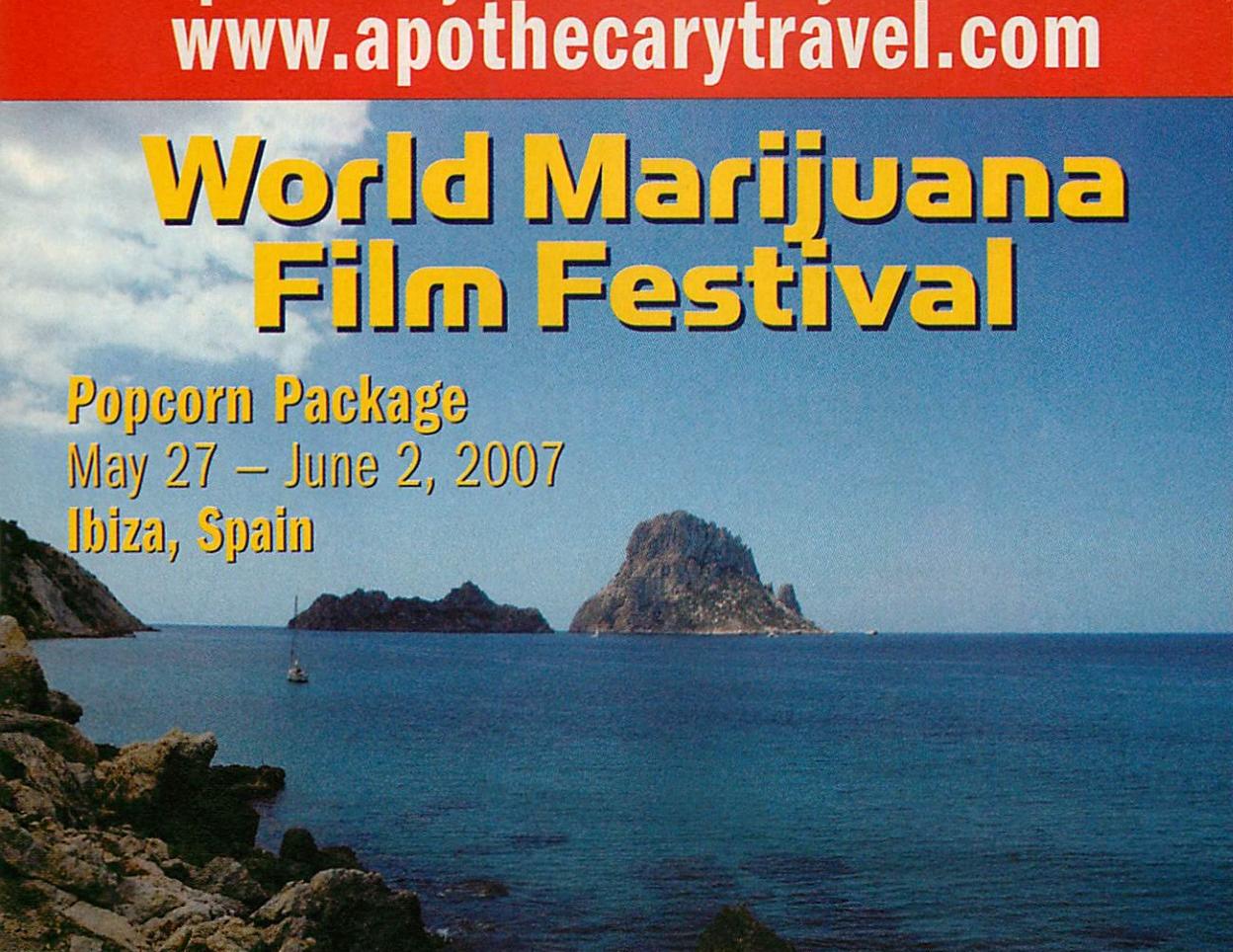
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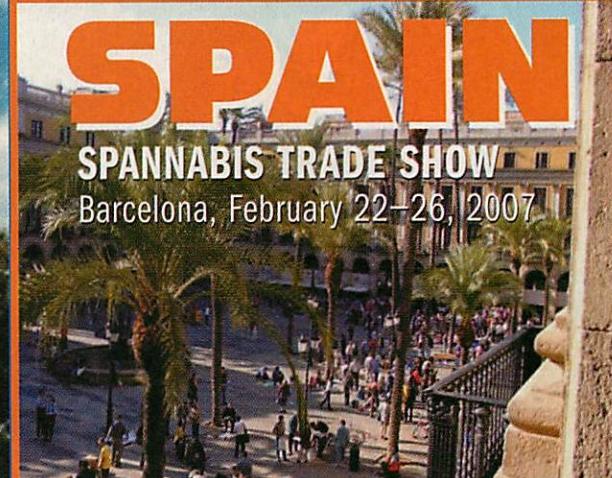
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OUT KEEPING IT REAL



Natural ganja farming requires a small army of organisms to ensure success, proving that when you grow organically, it's the little things that count.

By Sunnyside

Organic gardening and organics in general have been in vogue for the last few years. US organic-food sales have grown between 17 and 21 percent each year since 1997, and not only have the sales increased, but prices have increased as well. Take a look in your local supermarket and see how much more they're asking for the organic produce. Could it be that produce grown using organic techniques is better than conventional produce? Could it possibly be healthier and better-tasting? You bet!

"Organic," to us, means the use of natural, unrefined sources of nutrition for our plants. It also means natural pest control. Organically grown buds are no different from organically grown produce: They're healthier to smoke and have a much better flavor and aroma. You might get big, huge buds using chemical fertilizers, but are they the best buds you could have produced? That answer is going to vary from grower to grower, but I can tell you with definite certainty: I want the cleanest, best-tasting smoke I can possibly get.

ANDRE GROSSMANN

ORGANIC



why microbes?

A great deal of attention is paid to the conditions under which a plant is grown—humidity, temperature, light—but little attention is paid to the life under the soil line. If we focus underground, we'll have a better understanding of what this plant truly needs. Organic growers have a different approach to growing: Feed the soil, not the plant.

In an organic environment, the root zone is buzzing with activity. Our plants encourage microbes in the soil, just as the microbes encourage plant growth. Plants will release a small amount of their own nutrient supply in order to feed the microbes. In return for the nutrition obtained from the plant's roots, microbes produce chemicals that stimulate plant growth or protect the plant from insect attack, including auxins, enzymes, vitamins, amino acids and antibiotics. Only with the aid of these little helpers can complex molecules pass from the soil into plant cells with minimal change to chemical structure. There's a symbiotic relationship that exists between the soil and the plant when we use organic techniques.



DANNY DANKO

Strong pot plants need living soil.

Did you know that there are more microorganisms in one handful of soil than there are animals in all the rainforests combined? Not all are beneficial to plants, but a majority of them are. Microorganisms are the workhorses of nature. They do all the dirty work to ensure that the natural balance is maintained.

Microorganisms will take dead tissue—either plant or animal—and, through complex processes, turn it into nutrient-rich energy. This is the process that has sustained life on Earth for billions of years. Only recently has conventional agriculture shortcut this microbial feeding chain by using synthetic chemicals to supply nutrients as soluble salts that are directly absorbed by plants. As we all know, however, shortcuts aren't always the best route to take. When we can incorporate microorganisms and fungi and all of the other beneficials into our indoor environment, we're helping to form a mini-ecosystem perfect for plant growth.

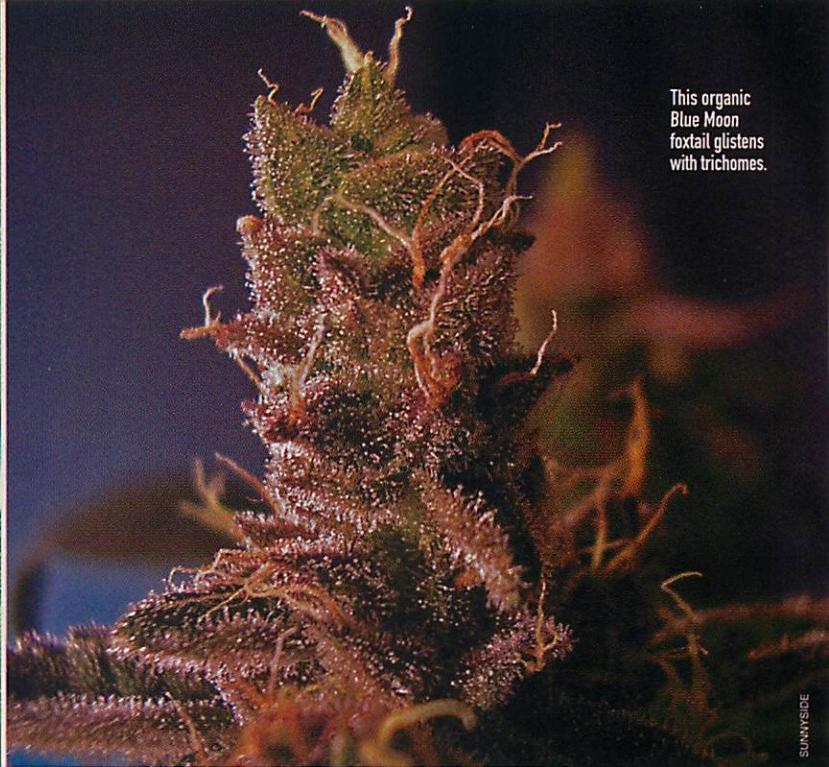
Don't let all of this fancy talk scare you away. You can have a thriving soil environment without knowing anything about the fine points of soil chemistry and mineral balancing, as long as you understand the importance of caring for the soil's inhabitants. This community of workers is totally dependent on you for its health and well-being, just like your plants. If you provide for their basic needs and avoid disturbing them too much, the soil microorganisms will thank you with a healthy, thriving soil that gives your plants no other option but to grow to their peak performance.

How do I get microbes in my soil? That's the million-dollar question, and there are several answers. Most organic amendments are microbially active—this means that they tag along with your organic amendments or fertilizer. But if you need an extra boost of microbes, here are a few suggested products:

TARANTULA from Advanced Nutrients. Tarantula is a bacterial blend of 57 microorganisms, with 1.4 billion Colony Forming Units [CFUs] per gram. This gives Tarantula the highest concentration of microorganisms for any plant-growth product in the world.

SUBCULTURE from General Hydroponics. A revolutionary blend of 52 soil microorganisms that will increase vitality and yield in all plants. SubCulture's concentration of microorganisms is the second-highest in the industry at 1.25 billion CFUs per gram.

ACTINOVATE from Natural Industries. 100% soluble formula that contains natural microorganisms that work with your plants' root systems to assist nutrient uptake and growth, and to protect against root rot and fungus.



This organic Blue Moon foxtail glistens with trichomes.

Beneficial fungi promote healthy roots.



COURTESY OF REEFERMAN SEEDS; OPPOSITE PAGE: BRIAN JAHN

the fungus among us

Remember, below the soil line, little guys rule the world. This is especially true when it comes to mycorrhizal fungi. These fungi colonize the root zone and act as extensions for the roots, increasing their surface area.

Like microorganisms, mycorrhizal fungi obtain sugars from the plant, while the plant benefits from the efficient uptake and storage of nutrients and water by the fungi. Mycorrhizal fungi also improve the soil structure by producing humic compounds and organic "glues" that bind soils into aggregates and improve soil porosity. Soil porosity and soil structure positively influence the growth of microorganisms—and ultimately plants—by promoting aeration, water movement into soil, root growth and distribution. In compacted soils, the ability of mycorrhizal fungi to improve the soil structure is as important as seeking out nutrients.

Mycorrhizae are available in many forms. Gels, powders and tablets can be found at your local garden-supply store. Some manufacturers have even started to incorporate these fungi into their premixed soils. Fox Farm and Promix are just two that offer these solutions.

The next time you get ready to start a new crop, just remember that a living soil supplemented with a balanced diet of organic-based nutrients is all you need to grow the finest ganja in the world. So switch to organics—your lungs will thank you.

MASS SKUNK



Ladybugs voraciously devour mites on leaf undersides.



when insects attack

BY MAX YIELDS

If you grow pot, sooner or later you're going to have to deal with bugs. Indoors or out, pest control can be one of the biggest challenges for any grower. There are several ways to approach this common problem, but for those who don't wish to use repellents or insecticides for any reason, biological pest control is one of the safest and most effective methods available. It involves using nature against itself—or rather helping nature take its course, if you prefer.

There are essentially two forms of biological pest control. One involves using natural predators to attack and destroy a pest infestation. The other involves using pathogens to spread disease among the infestation and wipe it out. Obviously, in order to work, both forms of pest control must be non-harmful to plants.

Predators come in many varieties and generally target a specific pest infestation, but there are several species that are general, all-purpose pest eaters, such as the praying mantis (*Tenodera sinensis*), which will feed on almost any

common garden pest; the pirate bug (*Orus insidiosus*), which is effective against thrips, aphids and spider mites; or green lacewing larvae (*Chrysoperla rufilabris*), which can control aphids, thrips, mealy bugs and whiteflies.

These types of predators are most often used as a second line of defense in combination with a pest-specific predator against a single target pest, or as general pest control when there are multiple infestations to deal with.

Infestation-specific predators target particular pest species. Several species of predacious mites are available as biological controls against spider mites, including *Phytoseiulus persimilis*, *Metaseiulus occidentalis*, *Amblyseius californicus* and *Phytoseiulus longipes*. Parasitic wasps (*Encarsia formosa*) are the predator of choice against whiteflies, and ladybugs are used to control aphids.

Generally, control is achieved by introducing several predators onto each plant every two to four weeks until the infestation is eradicated. Climate can affect the predators in many cases, so maintaining the correct environmental conditions can increase their efficacy and rid the garden of pest problems much quicker.

Another very effective form of biological pest control is to introduce disease into the pest colony and allow it to infect the unwanted bugs until they're wiped out. *Bacillus thuringiensis* or BT is the most common of the several bacteria that are known to attack the larval form of many insects.

More than a half-dozen strains of BT are in common use today, and they are very effective against several different types of worms, caterpillars and nematodes. All are nontoxic to humans, plants and pets. They're generally applied several times at prescribed intervals for best results.

Another simple form of biological warfare against plant pests can be easily waged by the home gardener. Since any large insect colony will contain some weaker members who are already infected with disease, you can use them as carriers to help you spread it throughout the rest of the colony. Just collect as many of the little buggers as you can, mash them up and soak them in water for several hours, then strain the mixture and spray it onto the plants. Repeat often and, as the remaining pests drink the water and feed on the saturated plant matter, they'll ingest any pathogens present and spread disease throughout the colony.

Biological pest control can be very effective, but it works best during the early phases of an infestation, before it's had time to take hold. Predators can only consume and destroy so many bugs per day and disease can only spread so fast, so early detection is crucial.

Also, keep in mind that predators are just as susceptible to insecticides as the bugs you're trying to get rid of, so discontinue any chemicals you've been using and spray down the garden with water several times to wash away residue before introducing any predator species.

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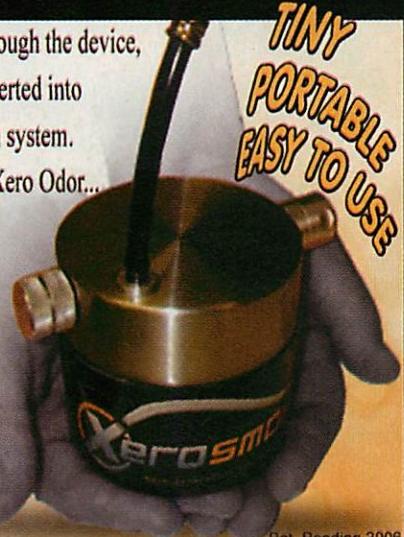
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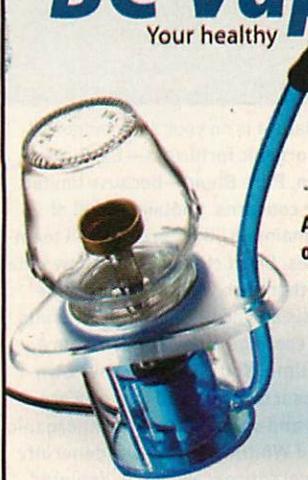


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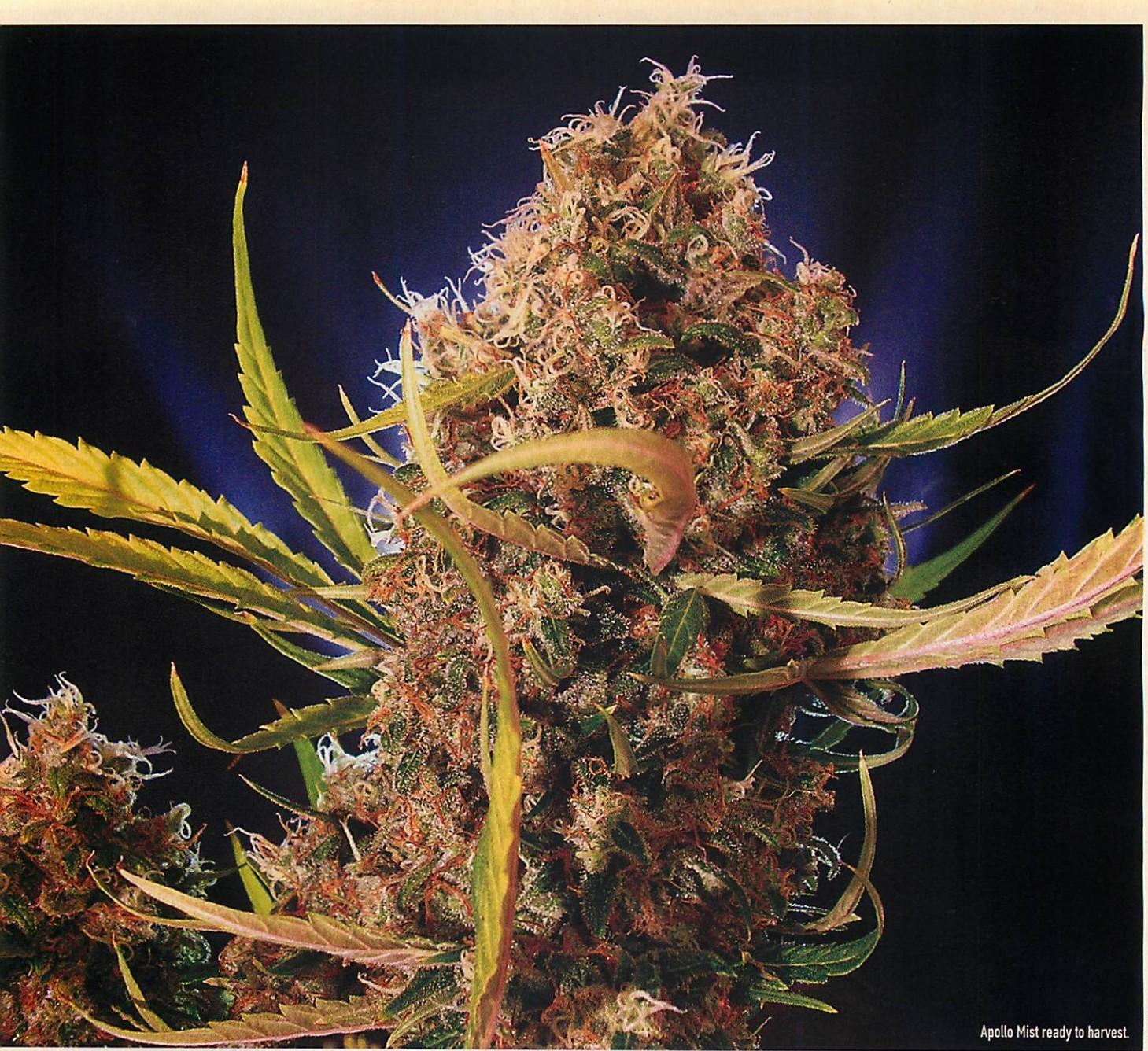
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SUNNYSIDE

organic vs. chemical

BY JORGE CERVANTES

Nutrients supplied by fertilizers can be broken down into specific chemical elements whether the fertilizers are chemical or organic in origin. Is one better than the other? Maybe, but they also require different management strategies.

Chemical elements are generally altered by heat and chemical processes. Liquid and crystal fertilizers consist of elemental nutrients combined in a soluble form and are immediately available upon application for uptake by roots. Granular chemical fertilizers release nutrients slowly over a month or two. Osmocote fertilizers consist of layers of degradable resin impregnated with nutrients; the resin breaks down over time and releases the nutrients.

Exact quantities of each element in a chemical fertilizer are included in the mix, and a specific ratio of "safe nutrient levels" is fed to plants. You can find a mix for specific water conditions and plants at your local hydroponics store. Once in solution form, you can measure the overall strength of chemical nutrients with a ppm (parts per million) or EC (electrical conductivity) meter.

Organically grown cannabis has a sweeter taste because the natural elements impart many more compounds than do chemical fertilizers. You can choose to mix and manage your own organic fertilizer, but indoors this requires horticultural know-how. Outdoor organic gardens

are easy to maintain because Mother Nature is on your side. Indoors, I prefer to use tried-and-true premixed organic fertilizers—Earth Juice, BioCanna, BioGenesis, BioBiz, Fox Farm, Pure Blend—because limited space, soil life and sanitation are major concerns. Containers full of fresh soil have little room to build and maintain "live" organic soil teeming with beneficial bacteria and microbes. Short cloned crops allow little time to cultivate the soil life. However, there are ways to utilize some organic techniques on a short-term basis and achieve excellent results.

Use new potting soil high in worm castings, peat, sand, manure, leaf mold, compost and fine dolomite lime. You can make your own soil, but remember that destructive insects, fungi and bacteria are often present in homemade composts and soils. Store-bought organic soils such as Black Gold, Fox Farm and Whitney Farms are generally consistent and safe to use. Savvy growers throw away old, depleted soil and start new plants with fresh organic soil.

Organic nutrients, manure, worm castings, and blood and bone meal all work very well to increase the soil's nutrient content, but nutrients are released and available at different rates, and nutrient availability is tricky to calculate precisely. The saving grace is that organic nutrients are somewhat difficult to overapply. Organic nutrients seem to be more consistently available when used in combination with one another. Usually, growers use a mix of about 20 percent worm castings with other organic agents to get a strong, readily available nitrogen base. During flowering, they fertilize with bat guano, the organic super-fertilizer.



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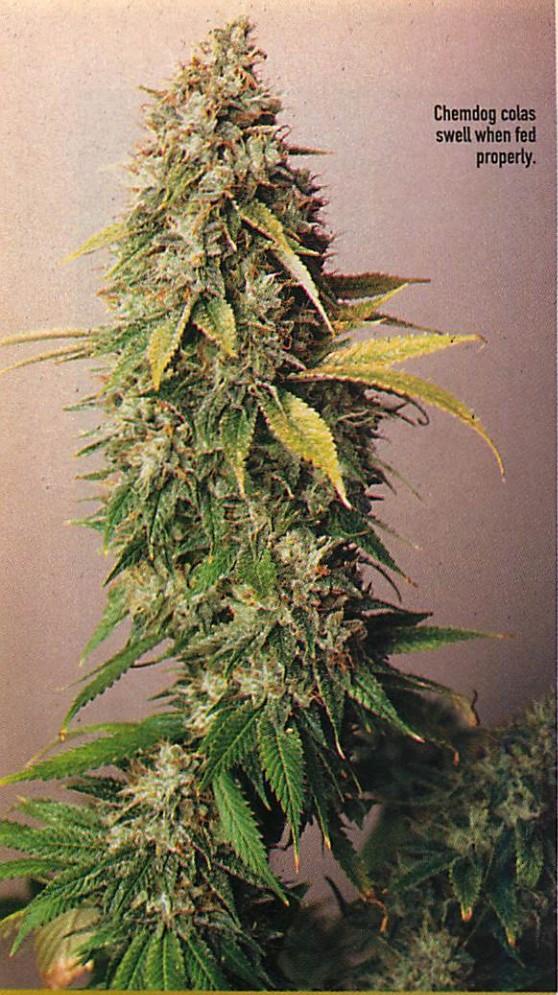
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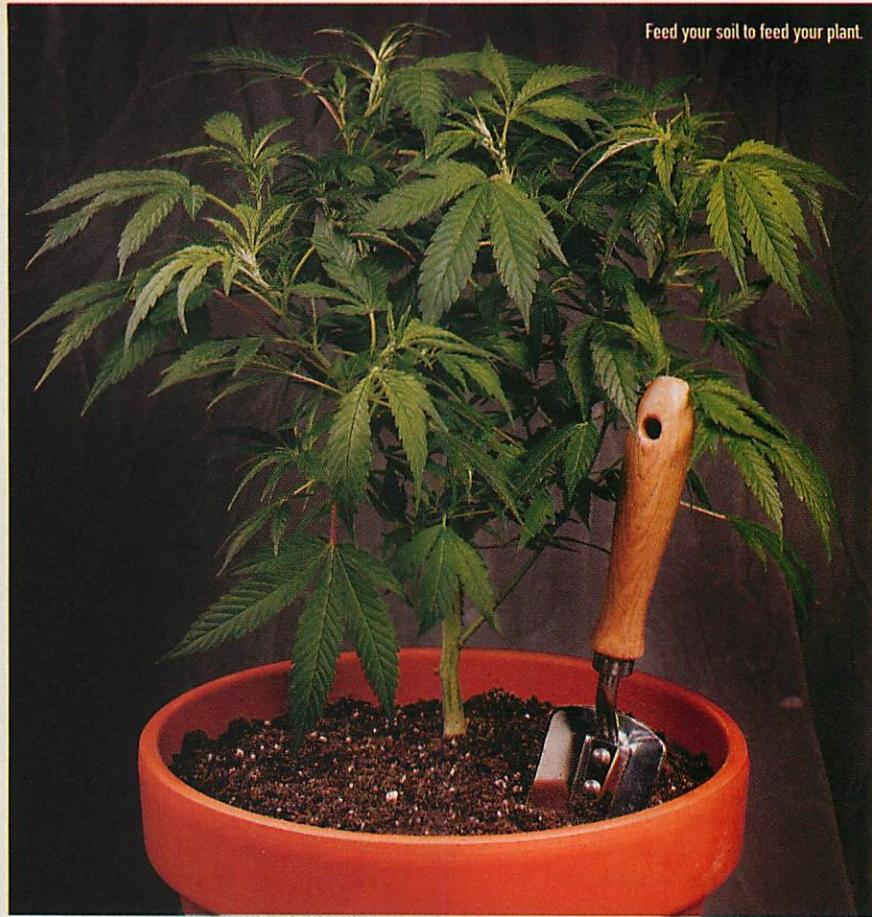
Cannabis Strain Investigation

STORY BY DANNY DANKO.
PHOTOS BY BRIAN JAHN

In search of Chemdog—the legendary strain that's spawned numerous award-winning children, including East Coast Sour Diesel and, allegedly, California's OG Kush.

Anyone who's smoked Sour Diesel in New York or OG Kush in California can clearly tell that the two are related. But which came first, and when? The mystery welcomes many hazy and dubious explanations from both coasts, but the truth just may be that another strain altogether, hailing from western Massachusetts, precedes them all and unites them in "herban legend."

Many have heard the fables of the Kush and the Diesel, but few know that both strains share a parent in Chemdog (a.k.a. Chemdawg, the Dog, Headband, Snowdog). Even fewer know that the



Feed your soil to feed your plant.

OUTDOOR ORGANIC SOIL MIX

HERE IS THE B.C. GROWERS ASSOCIATION'S RECOMMENDATION, REVISED BY VIC:

- 1 bale Sunshine Mix #2 or Pro-Mix
- 8 cups bone meal (phosphorus source)
- 4 cups blood meal (nitrogen source)
- 1-1/3 cups Epsom salts (magnesium source)
- 3-4 cups dolomite lime (calcium source and pH buffer)
- 1 tsp fritted trace elements
- 4 cups kelp meal
- 25-pound bag pure worm castings

Mix thoroughly, moisten and let sit one to two weeks before use.

compost teas

Compost teas contain soluble organic nutrients and a potent elixir loaded with beneficial microbes to fight off pests and diseases. A quarter-teaspoon of a well-made compost tea holds more than a billion bacteria, 15 feet of fungi strands and thousands of different species of protozoa, nematodes and mycorrhizal fungi. Disease-causing organisms can't compete with beneficial bacteria and fungi. Beneficial bacteria also work to break down plant residues and toxic materials, plus they improve soil structure and water-holding ability.

Make tea from well-rotted compost that contains numerous microbes and nutrients. The compost pile must reach 135°F for at least three days to ensure that it's free of most diseases. Manures must be well-composted. You can brew the tea in a 5-gallon bucket. Add about 1 gallon of rotted compost or manure to 4 gallons of water. Stir well and let the mix sit for several days. You can also put sifted compost into a nylon stocking and submerge it in the bucket. Stir the mixture gently several times a day to integrate oxygen and remove microbes from the compost. Adequate oxygen keeps the brew fresh. If it starts to smell foul, anaerobic bacteria are present. Add fresh water and stir more often. The good aerobic bacteria reestablish as soon as they have an ample supply of oxygen. Learn more about complex organic teas from Dr. Elaine Ingham, soilfoodweb.com.

Check the following sites for more information: ota.com, earthjuice.com, hydro-organics.com and ehow.com/how_17896_build-organic-soil.html.—Jorge Cervantes



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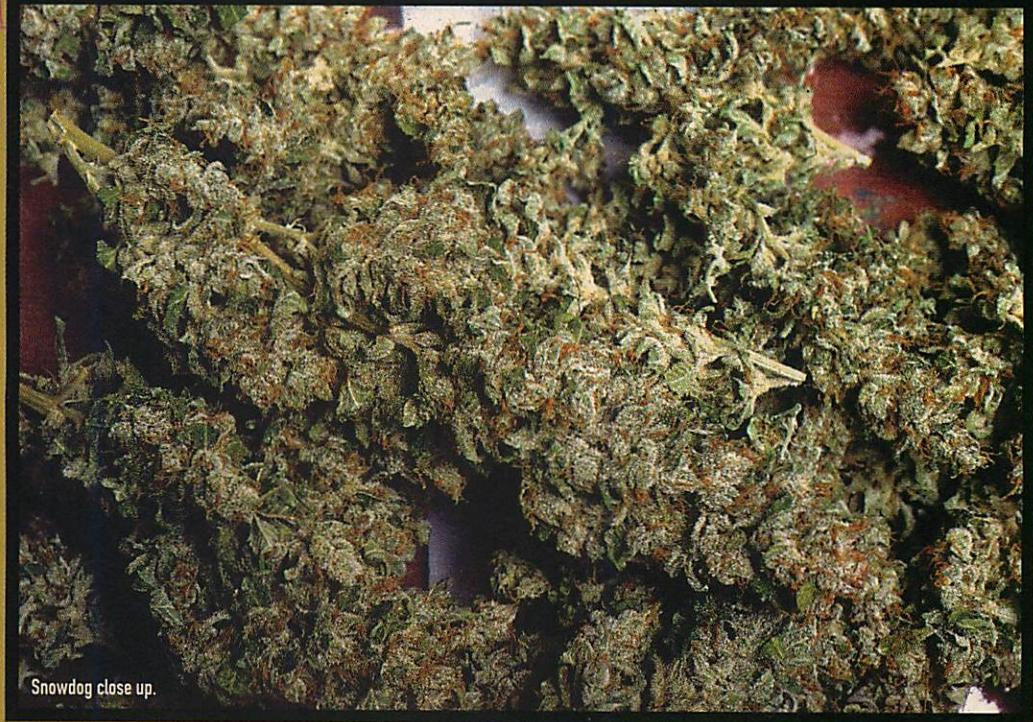
To Chemdog's surprise and delight,
he found a handful of seeds inside
this package of perfect pot.

Organics

original Chemdog is stronger, easier to grow and even more flavorful than any of its offspring.

I recently made contact with Chemdog, who calls himself by the name of the cannabis variety he's been growing ever since a chance encounter in Deer Creek, IN, while on a Grateful Dead tour in 1991. This story, like many others, is difficult to substantiate, yet certain indisputable facts remain.

After taking a puff of what turned out to be the best cannabis he'd ever tasted, Chemdog begged the man who had it, J.B., for a hookup. The buds cost \$500 per ounce—an enormous sum at the time—but he ponied up the cash and received a box containing three pounds of Chemdog nuggets direct from Crested Butte, CO. To his surprise and delight, he found a handful of seeds inside this package of perfect pot. From those original 12 magical beans, he



Snowdog close up.

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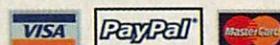
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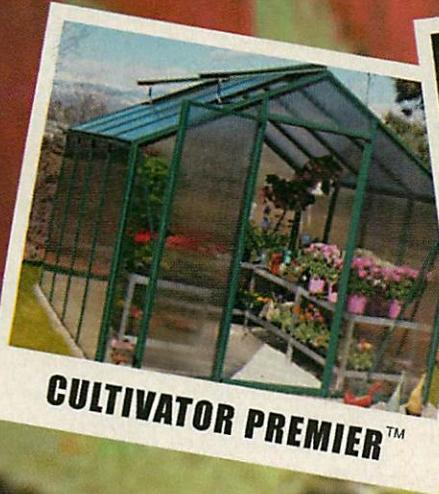
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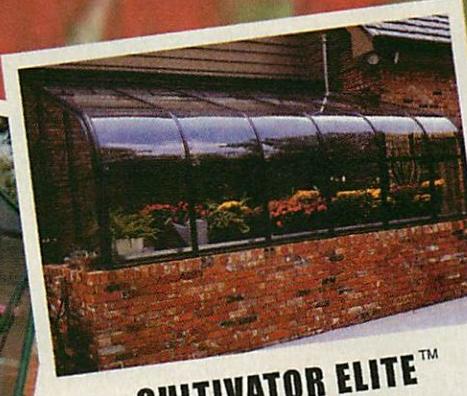
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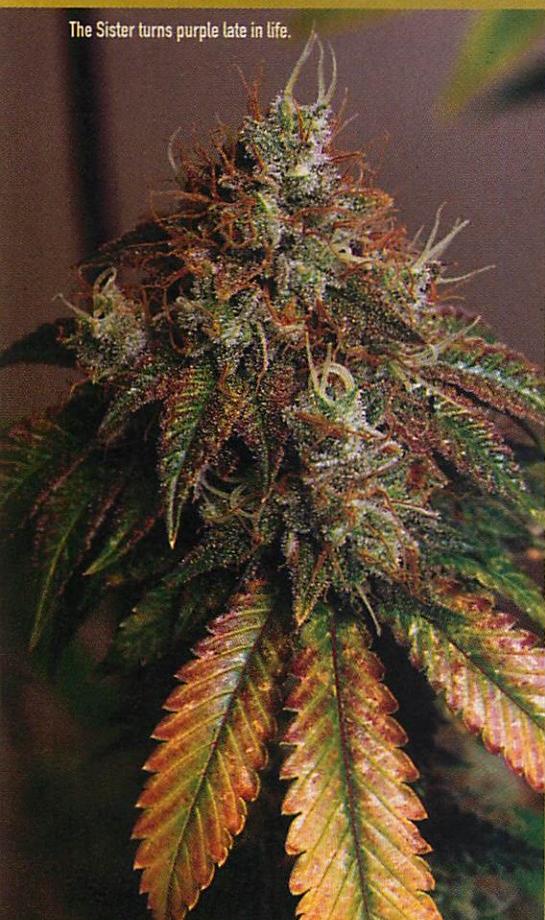
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A frosty batch of dry Snowdog.

The Sister turns purple late in life.



Chemdog grows his plants organically from start to finish. He gets four to six pounds from 28 plants grown under 2,600 watts of light.

produced a number of phenotypes and crosses that rival the best bud in the world.

Chemdog planted three seeds, and two of them came up female. One pheno, Chem A, was dubbed Chemdog, and the other, Chem B, became The Sister. Both feature a unique taste: lemony and pungent, with a powerful high that literally brought me to one knee during our particularly heavy puffing session.

Joint after cigar-sized joint circulated as Chemdog and his buddy Mr. I went over their timeline with me, trying to recall specifics. A buddy moved west to Lake Tahoe around 1994 with a cut of the Chemdog, which he renamed OG Kush. It quickly spread up and down the West Coast. Another group of friends in New York City crossed their Chemdog clone with a Mass Superskunk, originally from Sensi Seeds, and dubbed it Sour Diesel—and thus a delivery-service legend was born. Every few years, Chemdog starts another seed from the original 12 and several interesting phenos, including Superdog and Bubble Chem, prove that the man has really won the cannabis genetics lottery.

It's not just the genetics that make Chemdog's homegrown so incredible. Chemdog grows his plants organically from start to finish. He gets four to six pounds from 28 plants grown under 2,600 watts of light.

His mix is regular Pro-Mix fortified with Fox Farm Marine Cuisine. Alternating between Fox Farm and Earth Juice products, he feeds mildly and only vegetates his plants for a week or so in 1-gallon buckets. Upon flowering, he transplants into 5-gallon buckets, to which he also adds earthworm castings.

Even Chemdog's pest-control techniques are organic. He uses Safer's Soap and yellow sticky traps to take care of stray mites and whiteflies. Since vinegar and wine attract fungus gnats, he places cups at plant level to drown these annoying insects.

In between feedings, Chemdog uses plain water—one gallon per bucket every three days, and then every two days during heavy flowering. In addition to the regular nutrient feedings, he provides humic acids in the form of Europonic Fossil Fuel once a week. During the last two weeks of flowering, only plain water is used to leach out any remaining salts.

The leaching process causes fan leaves to turn fall colors—some yellow but also radiant reds and purples—as excess nitrogen and other nutrients are extracted. This results in clean-burning buds that smoke to a light white ash, enhancing the flavor and smokeability of these amazing strains. *

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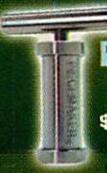


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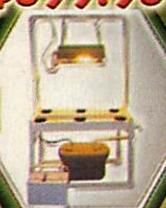
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CLONING FOR CASH



To reap the benefits of cultivation without the hassles, Mr. Mom grows mother plants and sells rooted cuttings, then sits back and watches the pot roll in.

Story by Danny Danko Photos by Andre Grossmann

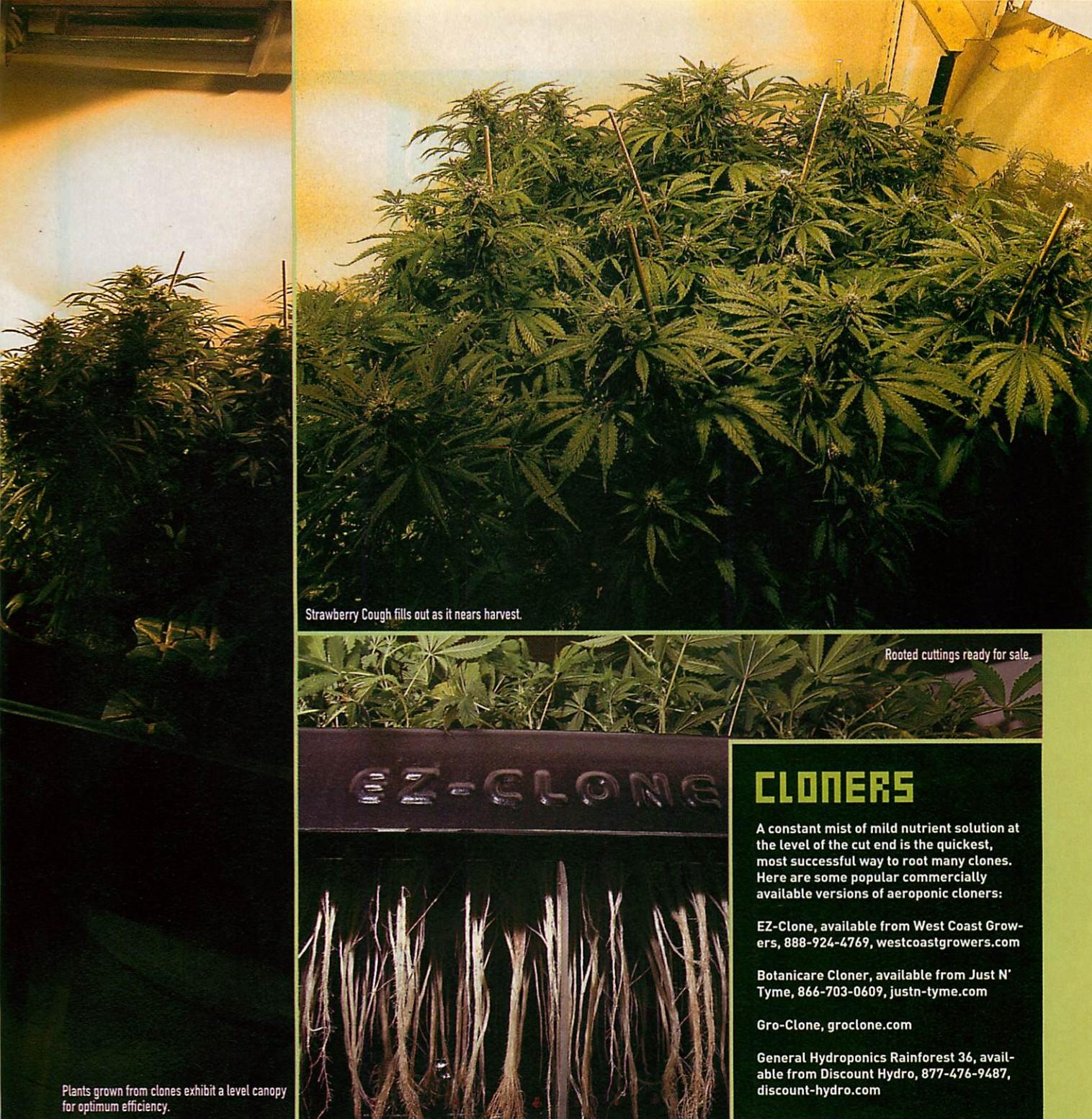
Mr. Mom faced an interesting predicament: He'd always wanted to grow ganja, but circumstances had prevented him from allowing flowering plants and their resulting odors to permeate his abode. It wasn't the smell of growing plants so much as the stench associated with trimming and drying that concerned him. There was no way his neighbors would tolerate it for even a day, and heavy air filtration was not an option. Then he stumbled upon an interesting solution to his dilemma and began an undertaking that would change his local cannabis climate forever.

The answer was simple: Grow healthy mothers of popular and sought-after varieties, and never have to flower or trim buds again. By providing clones to friends at a reasonable price or in exchange for a predetermined cut of the resulting harvest, Mr. Mom created for himself a guaranteed stash and profitable revenue stream without having to sweat the flowering process at all. No worries about timers, flowering nutrients, heavy odors or harvesting; he simply keeps the moms in good shape and takes cuttings to order.

A good healthy mother plant will provide dozens of genetically identical cuttings. The benefits of cultivating from clones include uniform growth, guaranteed females and time saved while waiting for seedlings to sprout and mature. Seed crops may exhibit more vigor, but clones will outperform them over the long run, since they use space more efficiently, resulting in larger harvests.

Cloning a plant is a simple process, as long as several critical factors are met. Cut ends must be able to take in water or mild nutrient solution at all times. Never allow the chosen medium to dry out, but remember that too much moisture can cause stems and leaves to mold or rot. A delicate balance of humidity and temperature must be maintained. Clear domes with a hole or two cut in them provide enough moisture to prevent clones from wilting. Heat pads underneath the trays boost successful rooting percentages as well.

As for the actual slicing, use a sharp, clean blade and have everything prepared and laid out beforehand. Be sure to take at least a 2- to 3-inch



Strawberry Cough fills out as it nears harvest.

Rooted cuttings ready for sale.

CLONERS

A constant mist of mild nutrient solution at the level of the cut end is the quickest, most successful way to root many clones. Here are some popular commercially available versions of aeroponic cloners:

EZ-Clone, available from West Coast Growers, 888-924-4769, westcoastgrowers.com

Botanicare Cloner, available from Just N' Tyme, 866-703-0609, justn-tyme.com

Gro-Clone, groclone.com

General Hydroponics Rainforest 36, available from Discount Hydro, 877-476-9487, discount-hydro.com

Plants grown from clones exhibit a level canopy for optimum efficiency.

top and cut diagonally for more surface area on cut ends. Cut stems below an internode, the place where the leaf meets the stem. Lightly scrape the bottom inch of each cut end to stimulate even more root activity (some perform this cutting and scraping in water for even better results). Trim the node just above the cut and dip the bottom inch into a rooting hormone containing fungicide. The gel or powder that you use will keep clones' stems from rotting during the rooting process. Gently but firmly place clones immediately into your chosen medium. Lighting should not overwhelm the fragile plantlets. Fluorescent bulbs will cause far less evaporation than even low-wattage high-intensity discharge (HID) lights. Cuttings placed in proper conditions should show roots in between five days and two weeks.

Mediums can vary: Some growers prefer no medium at all (as with many commercially available cloners that use aeroponic methods); others favor rockwool trays with lids or peat plugs. With proper monitoring of moisture and temperature, almost any chosen medium will do. Cuttings can even root in a glass of water on a windowsill.

Successful and profitable cloning, however, requires a bit more attention. Mr. Mom provides hundreds of Strawberry Cough, Sour Diesel and Super Silver Haze clones to friends almost every week. He manages to do this in a space no larger than a closet (3' x 5' x 8') with minimal electrical usage. Two EZ-Clone machines sit on shelves underneath efficient Sun Panel fluorescent units with twelve 48-inch T8 bulbs (available from herbgardens.com). The mothers sit beneath a 250-watt metal-halide (MH) lamp under the shelves.

How did Mr. Mom come up with this genius idea? "Out of necessity," he says. "I love growing, and my current situation won't allow me to go the distance. Instead, I help my friends save their time and energy, and the rewards come back to me tenfold."

How much does a clone cost? "That all depends on the strain and how much I like you, but I would say anywhere between \$20 and \$100 apiece, ready to go into any hydro system or dirt bucket. Every time I fill that 120-clone machine, it pays my rent, so I tend to fill it a lot. I call it 'cloning for dollars.'" *

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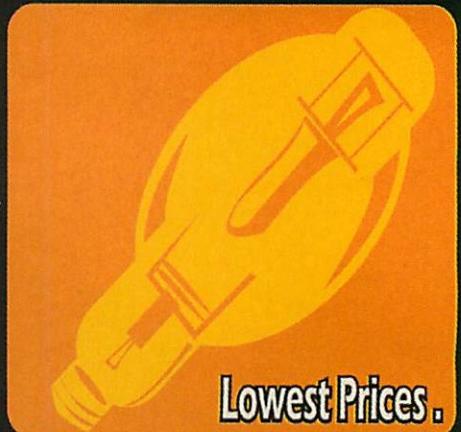
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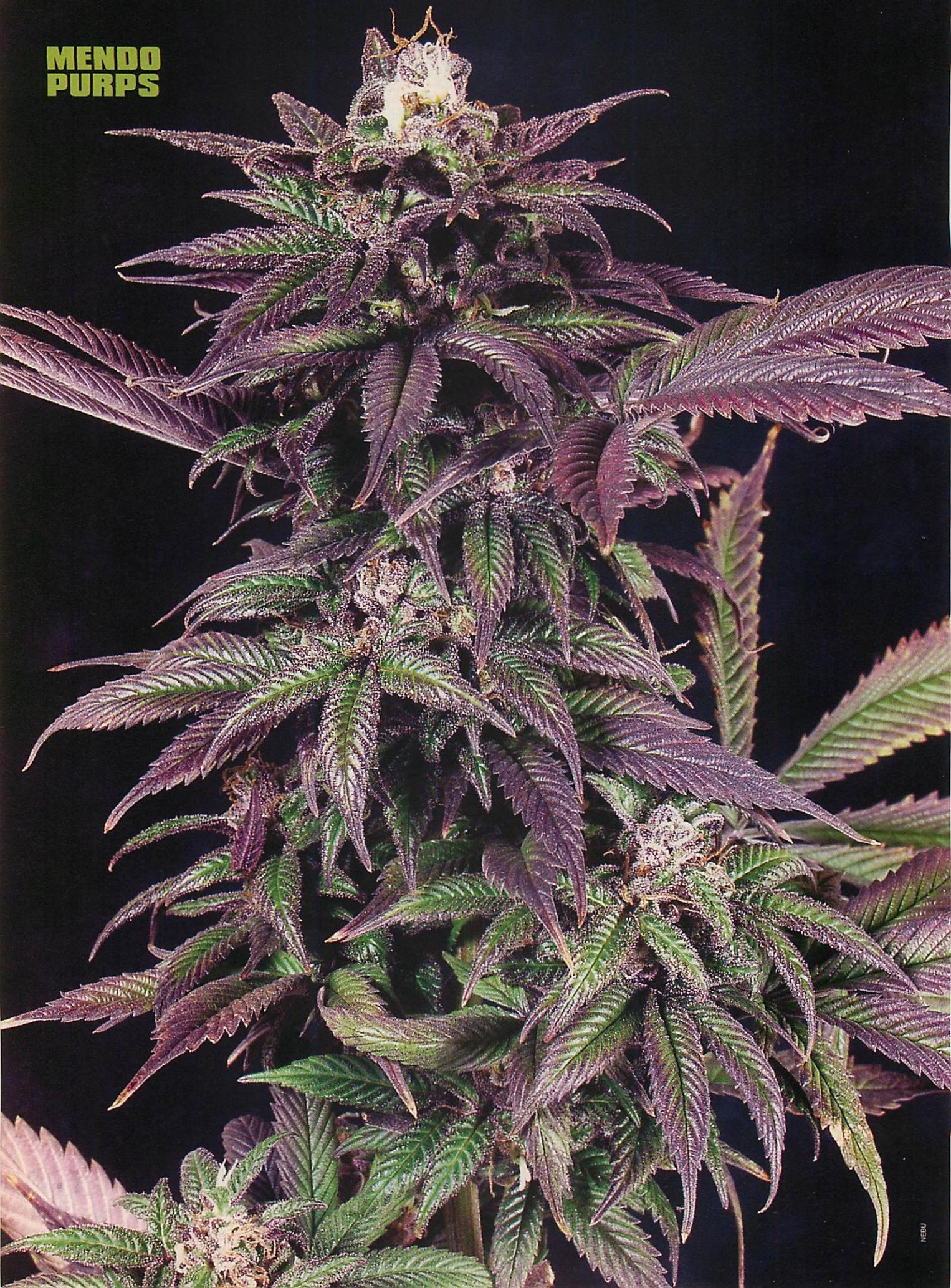
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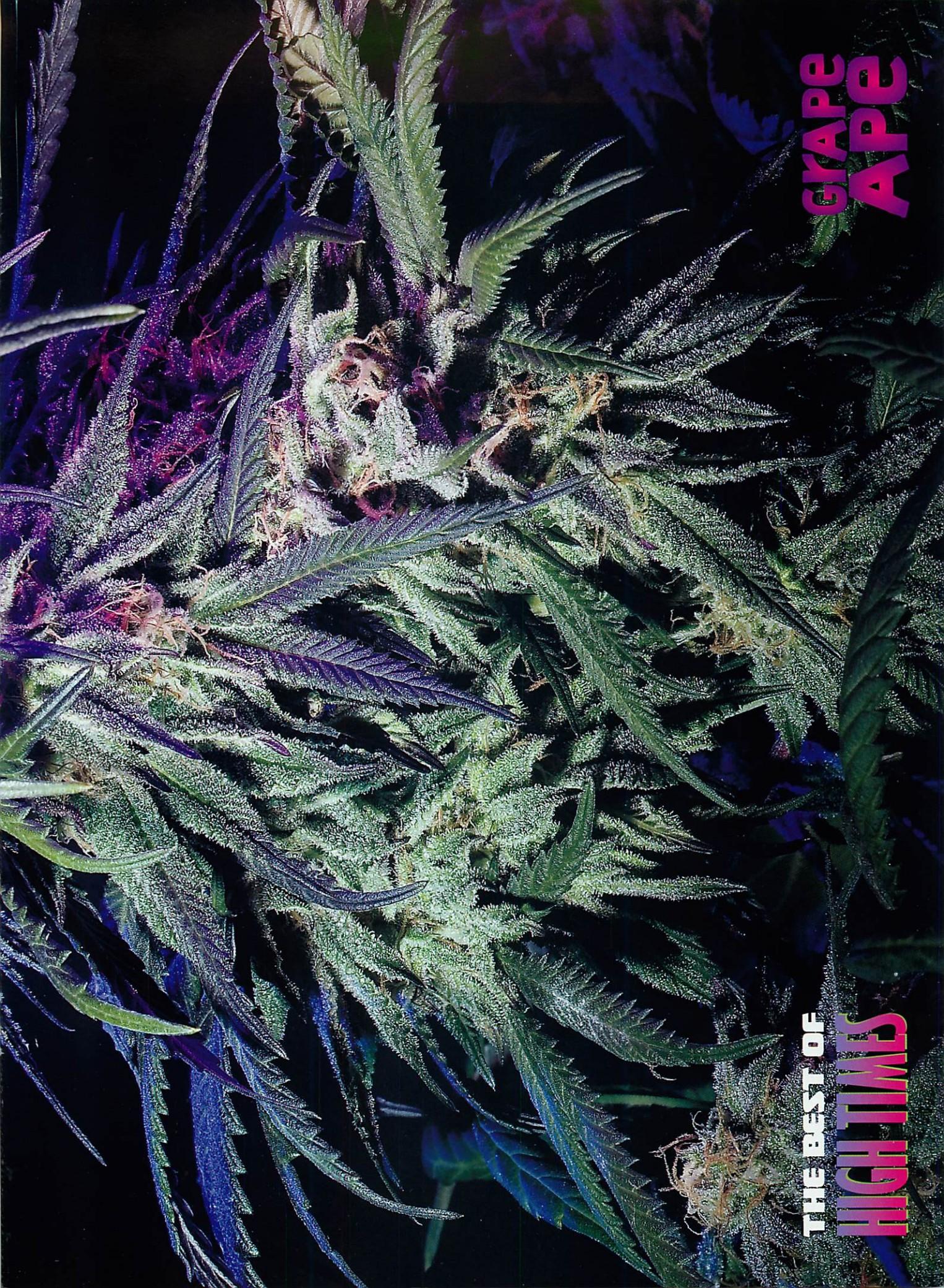
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THE
WEREWOLF



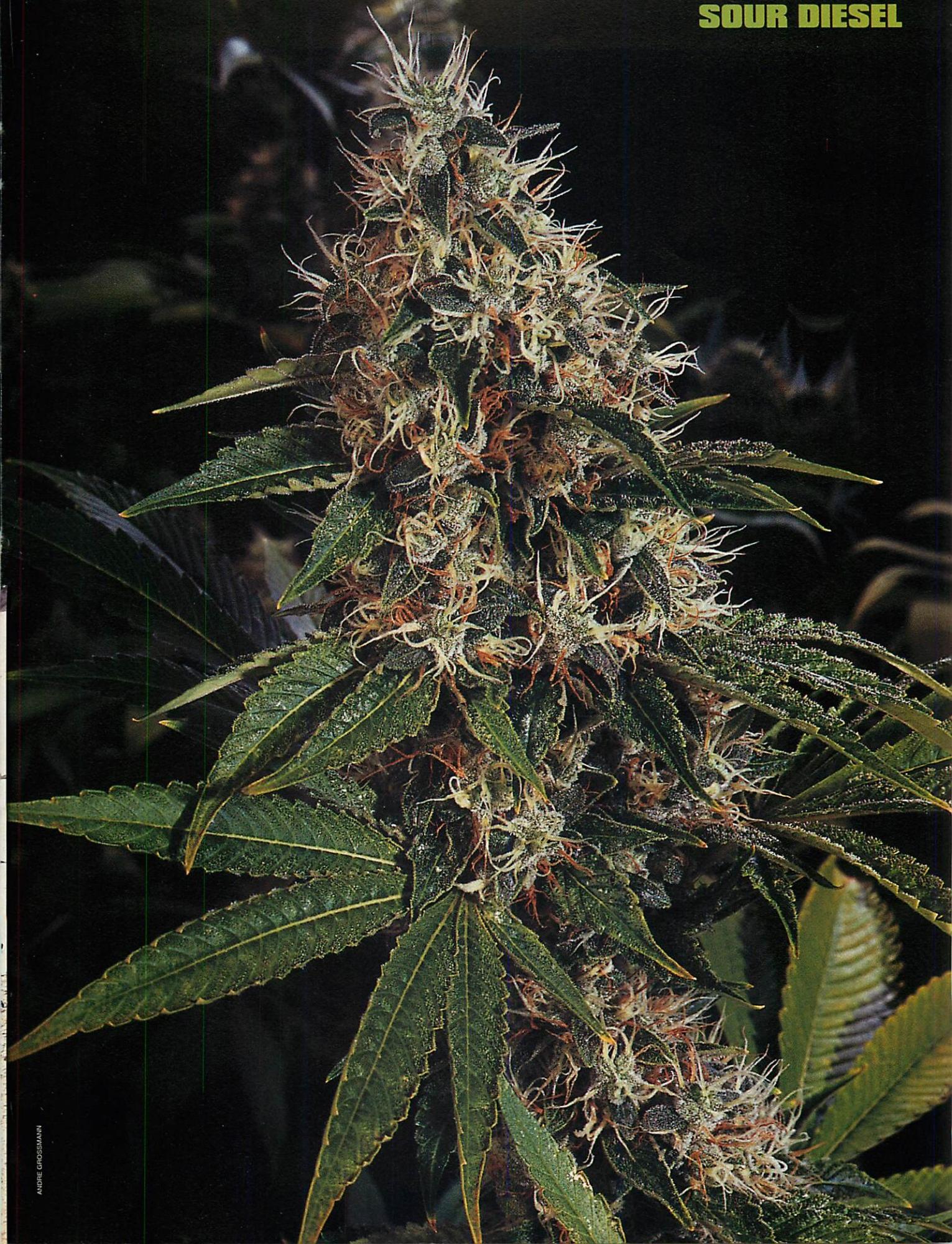
A close-up photograph of a cannabis plant, likely a sativa strain, showing dense, purple-tinted leaves with prominent veins. The leaves are covered in a thick layer of white, crystalline trichomes, particularly visible on the larger, serrated leaves. The background is dark, making the green and purple hues stand out.

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SOUR DIESEL





Gumboldt tops fill the canopy of the flowering space.

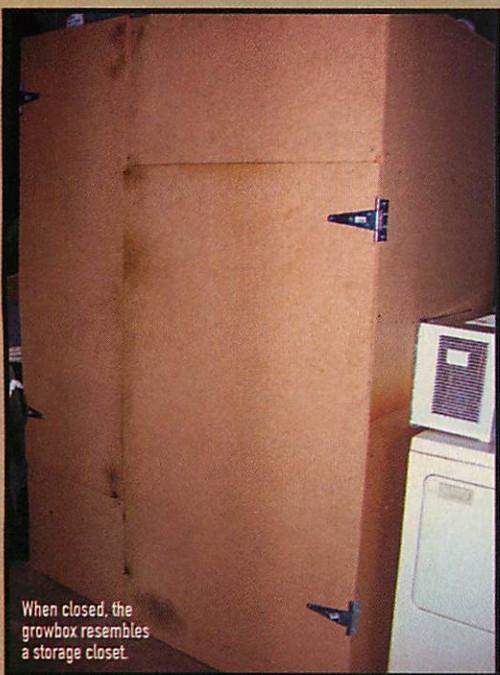
BIG YIELDS IN SMALL SPACES

This grower used to harvest 10 ounces every three months from his 3' x 3' x 6' growroom. Now he pulls almost 2 pounds every 60 days. Here he explains how he tripled the output of his limited location. Story & photos by MoRbiD

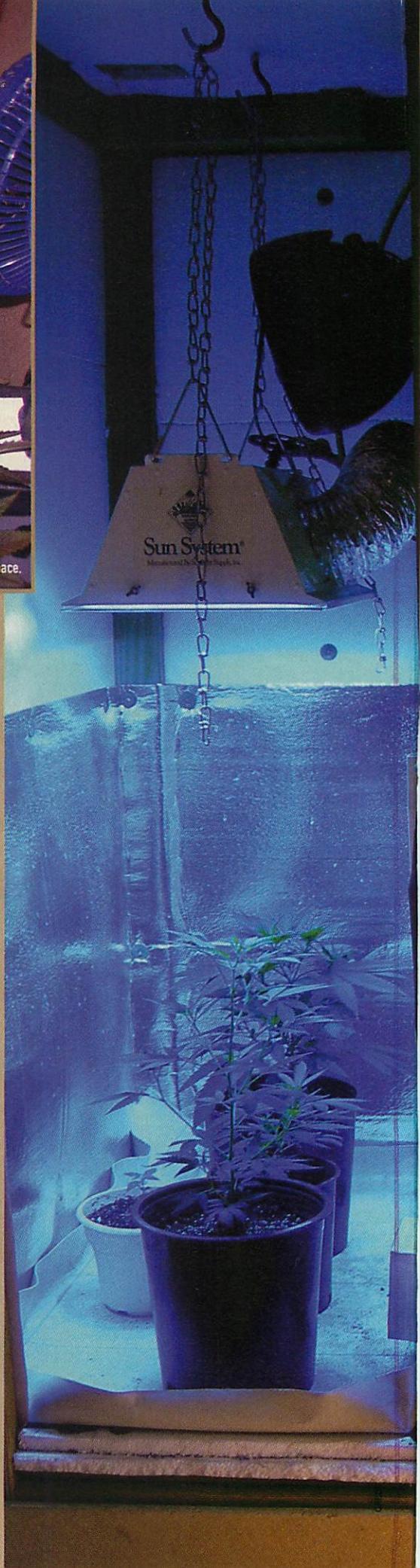
ENVIRONMENT

The environment in your growing area is the single most important factor in your garden. Whether you're a small-time closet cultivator or running a large-scale commercial operation, the conditions of the atmosphere surrounding your plants will either make or break you in the end. It doesn't matter how much money you spend on soils, fertilizers or fancy little gadgets—if the environment isn't dialed in, your harvest and quality will suffer greatly.

Adequate airflow is essential. To ensure proper air movement, purchase a good inline fan. You should always have your fan sucking the air from the top of your space, where the heat collects (and be sure to vent the exhaust somewhere safe). Smart farmers clean the air leaving and entering their space with activated-charcoal filters. A proper intake source will allow cooler, fresh air to be brought in as heated, spent air is removed. You can greatly reduce heat buildup close to plant tops and



When closed, the growbox resembles a storage closet.

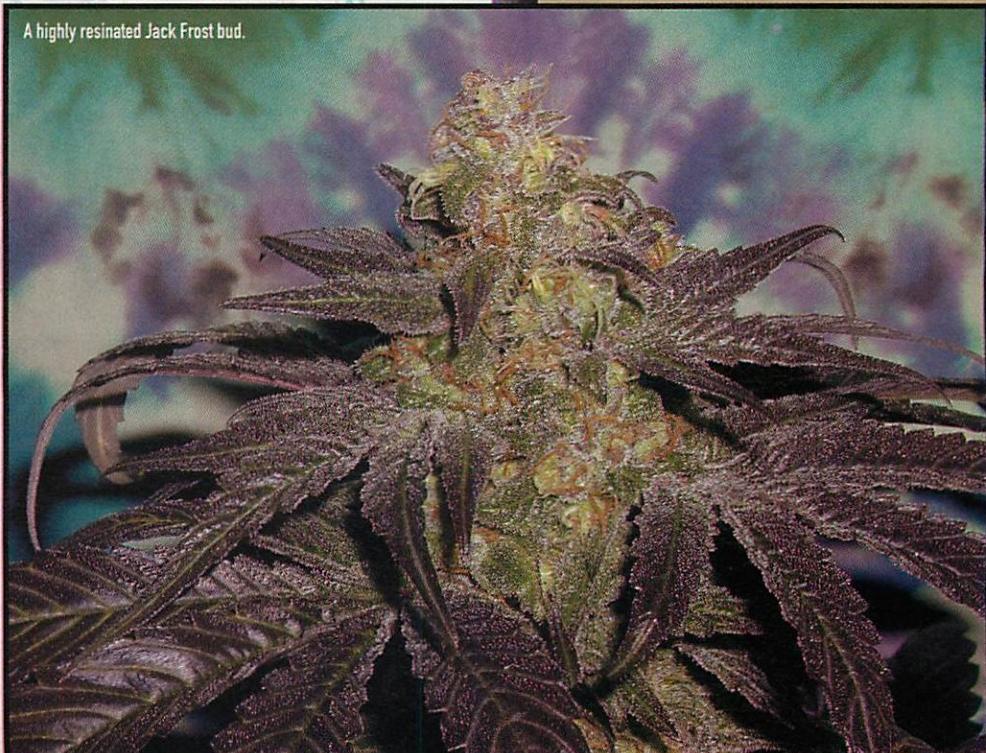


Two separate chambers facilitate all stages of growth.

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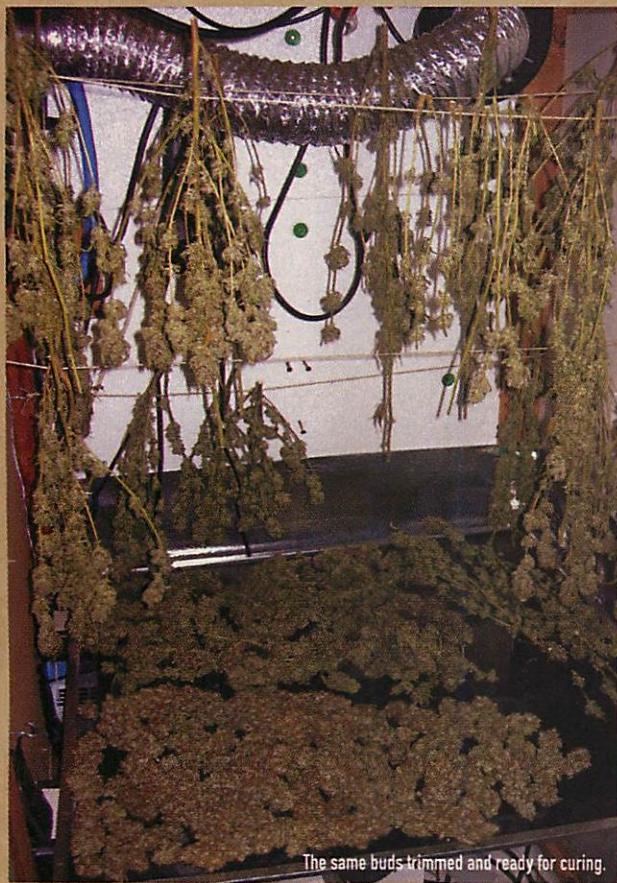
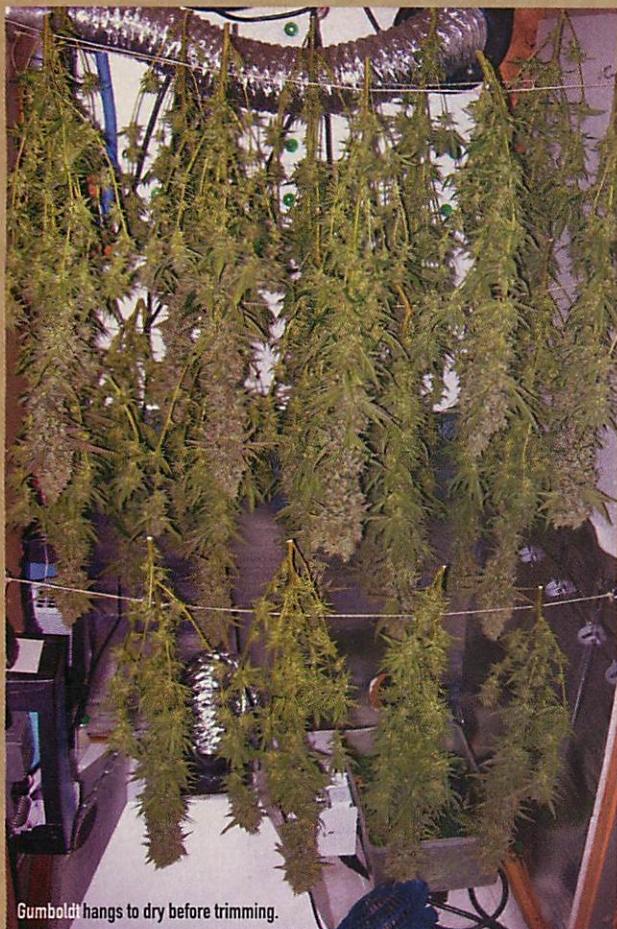
A highly resinated Jack Frost bud.



improve the climate by utilizing an air-cooled bulb and reflector. Remember to exhaust the light using a separate fan.

In my grow spaces, a 3' x 3' x 6' flowering chamber and a 1' x 3' x 6' vegetative chamber, I use a 6-inch inline fan to exchange the air and a 4-inch squirrel-cage fan to cool my lights. With this setup, along with a 5,000-BTU wall-mounted air conditioner, I can keep temperatures in the low to mid-70s when the lights are on and in the mid-60s to low 70s when the lights are off. With the help of the air conditioner, I keep humidity between 35% and 50%. In the winter months, a small space heater will not only keep the nighttime temperatures from getting too cold but will dry out the air to lower humidity levels, if necessary.

Without the proper amount of lumens from the lights, marijuana plants cannot thrive. Cannabis needs at least 30 watts per square foot to grow properly, with 50 to 80 per square foot being optimal. You can figure out your total watts per square foot by multiplying the width by the depth in your grow space, and then dividing that by the wattage of your lights. For example, my flowering space is 3' x 3', which equals 9 square feet total. I use a 1,000-watt high-pressure sodium (HPS) light, so that puts me at a whopping 111.11 watts per square foot ($3 \times 3 = 9$, $1,000 \div 9 = 111.11$). As you can see, I'm over by about 40 to 50 watts per square foot. A 600-watt light would be perfect for my space, rating in at 66.67 watts per square foot. [My 1,000-watt light was a freebie.] Proper ventilation and strong air-conditioning allow me to run brighter than necessary, further increasing the yield.



SOILS AND FERTILIZERS

As a proponent of organic nutrients in my farming experiments, I know how difficult it can be to re-create Mother Nature in a small container. Frustrated growers often switch to chemically based fertilizers, thinking they are easier to use. With time and practice, anyone interested in organic pot cultivation will find that not only is that method easier and possibly healthier, but the final product burns cleaner and tastes phenomenal.

My basic vegging mix is one bag of Fox Farm Ocean Forest potting soil, plus 1-1/2 cups of fine, powdered dolomite lime (for pH buffering) and 10 cups of pure worm castings. Whenever I transplant, I use Plant Success Mycorrhizae Innoculant (as recommended by the label). Plant Success is a great enhancement to your soil and will naturally increase your plants' root structure, nutrient uptake, leaf/bud growth and yield. I've personally noticed a substantial difference in overall growth and vigor between plants given Plant Success and those left untreated.

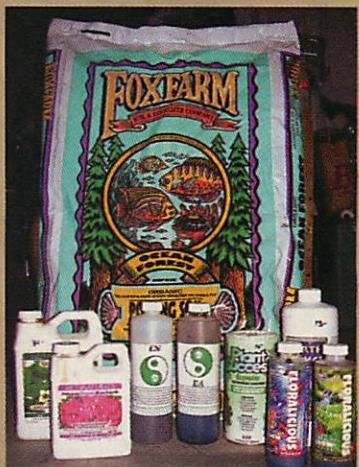
For flowering, use the same mix as above but add 1 or 2 tablespoons of high-phosphorus bat guano to the bottom half of the new container. Before transplanting, mix together the bottom layer of soil and guano and fill the rest up with more of the original soil mix. Roots reach the bottom just in time for a crucial boost during the most important stage of fruiting. Along with an organic liquid-fertilizer routine, this mix will provide tastier, more pleasant pot.

Nutrient feedings vary throughout all stages of plant maturity. For new transplants, I use filtered water mixed with EA/EN (Earth Ambrosia/Earth Nectar). This two-part formula is full of beneficial fungi and soil-borne bacteria, which greatly improve root production. It also breaks down organic nutrients in the soil so the roots can absorb them more easily. The next watering is usually just plain filtered water. I judge when the plants need water by lifting up the containers to feel how light or heavy they are. Then, by the third watering, I'll begin to introduce an all-organic fertilizer program. From that point on, I usually fertilize every other watering, depending on how quickly or slowly the plants are growing.

Of the many organic fertilizers



Healthy roots.



Organic soil mix and nutrients.

available, my favorite is Metanaturals. Be sure to follow the recommendations on the label of whichever fertilizers you choose. Start at a lower rate and work your way up to the recommended dose. The use of growth enhancers, such as General Hydroponics' Fluoramicous, greatly aids in building bigger buds. I experimented with it recently and noticed substantial improvements in flower size and vigor. By spending time with your plants and checking on them daily, you'll become very accustomed to their water and fertilizer needs, allowing you to better adjust your program to suit their requirements.

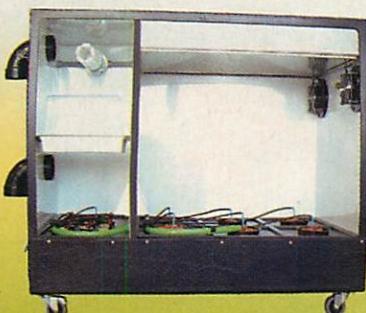
MAXIMIZING YOUR YIELD

Because of my space limitations, I used to grow only four plants in my 3' x 3' grow space. I'd vegetate them for four weeks and then switch the lighting schedule to a 12-hour-on/12-hour-off light cycle to induce flowering. This method would yield anywhere from 1 to 3 ounces per plant, depending on the strain. The quality was always great, but the three-month wait for my herb became unbearable.

Since then, I've tried something different. I now grow 25 plants in the same space, and not only have I increased my yield, but I've lowered the time it takes for me to harvest. With this Sea of Green-style method,

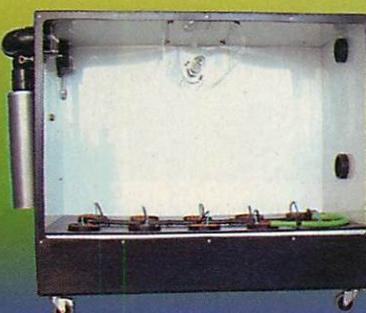


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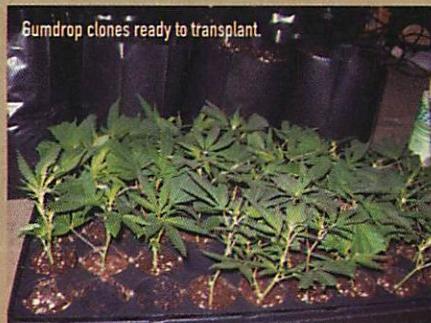
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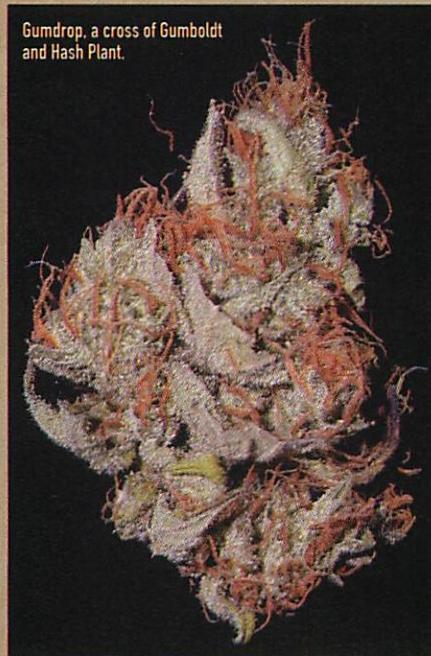


Dried nuggets of the Purps.



I start out with 25 well-rooted and healthy clones of my favorite strain (Gumboldt, a California strain known for its high yield, vigor, exquisite taste and potency). I place them in 6-inch Dixie Cups and veg them for only five days. This short veg time still allows the roots to develop into the soil mix, which

Gumdrop, a cross of Gumboldt and Hash Plant.



helps to increase the yield in the end—bigger roots produce bigger buds. The health and quality of the clones is of paramount importance. Poor clones are difficult to coax along and can take up to twice as long to grow as healthy ones.

After the 25 clones have vegged for five days, it's time to transplant them from their cups into 1-gallon grow bags in preparation for the flowering cycle. The plants will stay in these containers for the rest of their lives. I don't top them at all; I train them to be single-cola plants. As the plants start to stretch in the early weeks of flowering, I trim off the small, lower, side branches to help promote vertical growth. By the time they finish stretching, they'll have grown at least 12 to 18 inches and will be knotting up with beautiful little buds. These buds will continue to swell and form into the heavy colas we all prize. As the roots fill up the container, the plants' watering and fertilizing needs also increase. By the time I get close to harvest, the canopy has become so thick that it looks like a dense forest of buds. For the last week, I flush with plain water to leach out any excess nutrients.

The difference between my old method and my new one became quickly apparent: The significant increase in yield has greatly raised the efficiency of my small space. I should note that, in some areas, having more plants can increase the penalties if you're caught growing. Always be aware of the laws in your area.

By raising more plants closer together for a shorter period of time—and providing the perfect environment to do it in—anyone can triple the output of their space. All it takes is the determination to keep your garden free of the stresses of excess heat or moisture. With the proper conditions, even the smallest spaces can yield huge harvests. *

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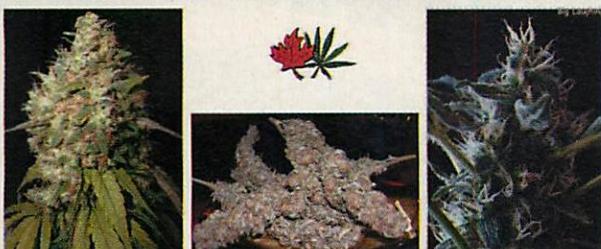
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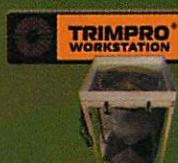
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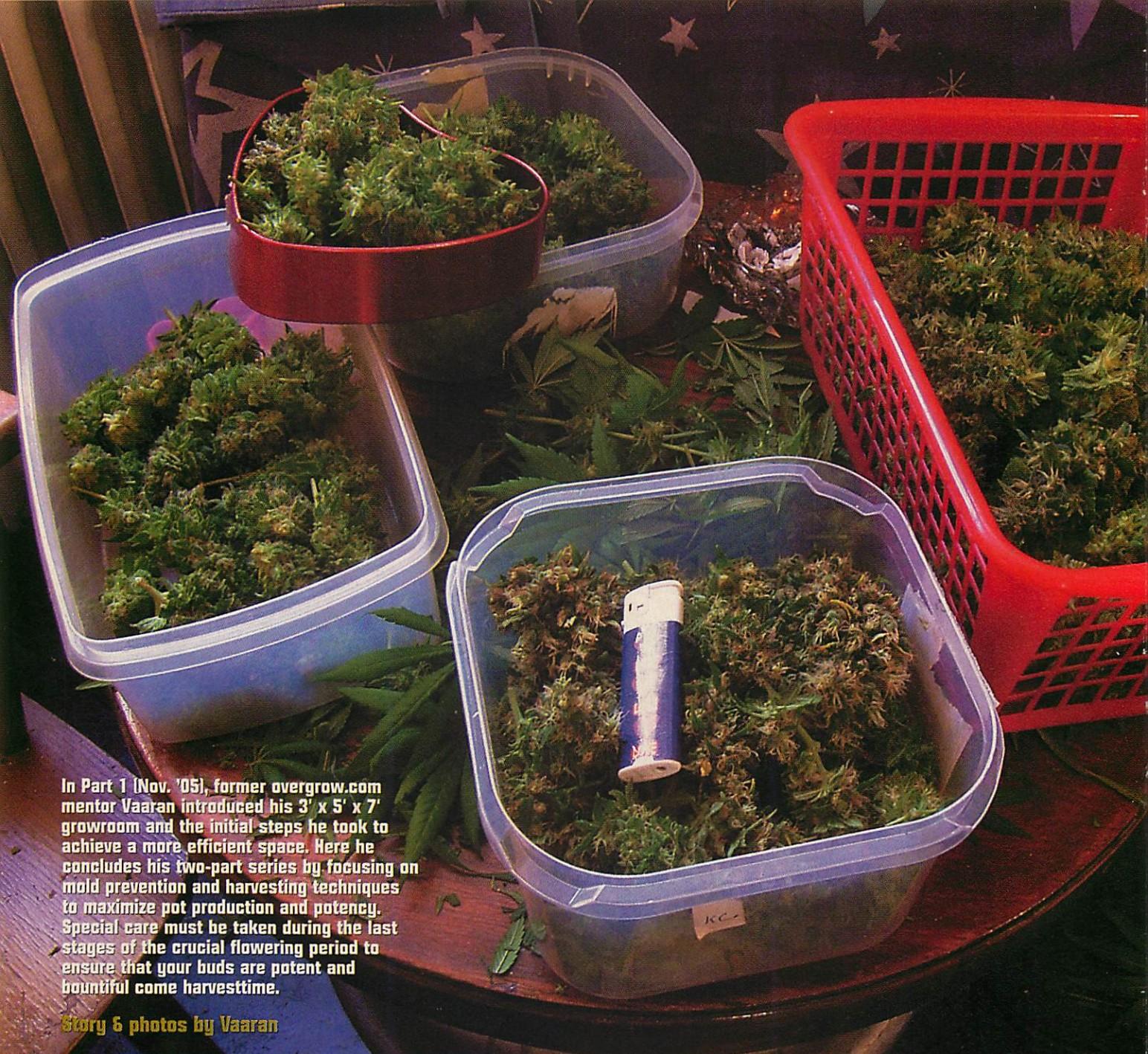
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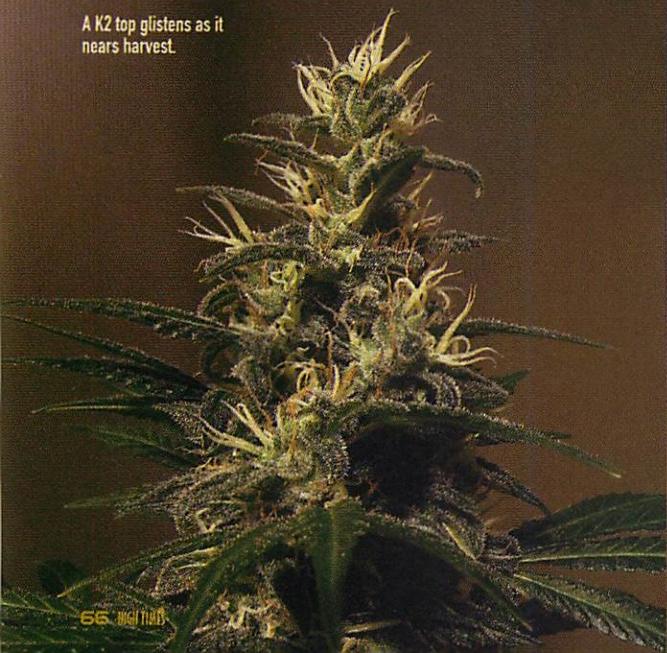
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In Part 1 (Nov. '05), former overgrow.com mentor Vaaran introduced his 3' x 5' x 7' growroom and the initial steps he took to achieve a more efficient space. Here he concludes his two-part series by focusing on mold prevention and harvesting techniques to maximize pot production and potency. Special care must be taken during the last stages of the crucial flowering period to ensure that your buds are potent and bountiful come harvesttime.

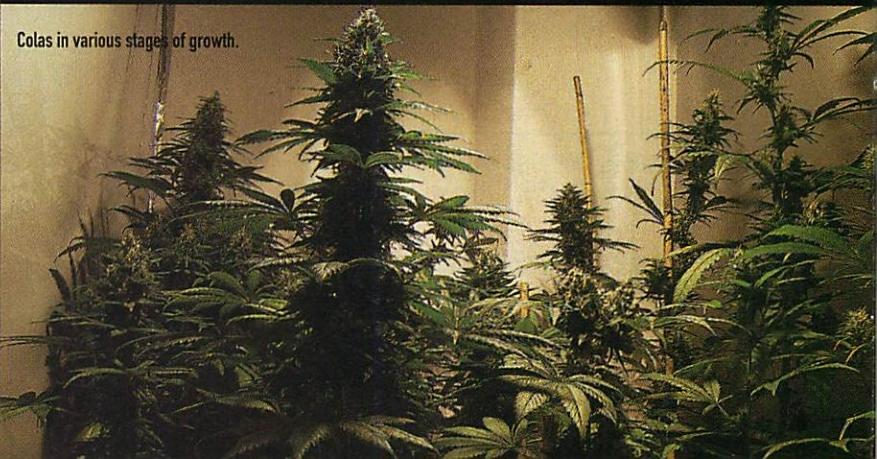
Story & photos by Vaaran

A K2 top glows as it nears harvest.



RIPE AND

Colas in various stages of growth.





Harvested buds ready to cure.



Healthy roots.



Developing flowers require extra care.

READY

ADDITIONAL VENTILATION IN MID- TO LATE FLOWERING

The risk of bud rot or mold (botrytis) greatly increases during the later stages of flowering. There's nothing worse than losing a crop to these nasty spores so late in the game. The denser your buds become, the greater their chances of contracting mold. To minimize the risk of infection, additional air circulation will keep humidity at a moderate level (below 50%) during this crucial time. Along with existing ventilation, a standing fan blowing on the developing canopy of buds will help discourage moisture buildup. HEPA-filter-intake air sources prevent airborne spores from even entering the growroom. Move the air around your growing tops to help plants avoid contracting the dreaded bud rot.



A dried K2 nugget.

HARVESTING, DRYING AND CURING

Another successful harvest is in the bag. In addition to the 23 females I grew from seed (Hindu Kush, K2, Kalichakra and Blue Rhino), I was given six Marley's Collie and Jamaican Pearl clones. My total dry yield was 609 grams, or 21 grams per plant (a 1.01 gram-per-watt average).

With different strains maturing at various times, I harvested the plants in increments, one plant at a time. For those of us who appreciate a variety of flavors and highs, it's well worth the effort. Once I've determined that a particular strain has reached its harvest window (usually varying by about 10 to 14 days), I judge my exact time to harvest by closely examining the color of the trichomes. Most strains start with clear trichomes that turn cloudy and then amber as THC degenerates. I prefer an "up" high, so I choose to harvest when the resin glands just begin to turn cloudy/amber, meaning that the majority of them are still clear. It's a matter of personal preference; experiment with harvesttimes and find out what works for you.

Once the plants get chopped, I trim them wet, remove all the bigger stalks and put them on drying screens in a dark, low-humidity room to prevent mold and degradation of THC. As soon as the buds are dry enough that the stems snap from bending, I place them in Mason jars to begin the curing process. It takes at least three to four weeks for the remaining undesirable compounds, such as chlorophyll and nitrogen, to break down.

Curing requires opening the jars at regular intervals several times a day to redistribute the air inside and allow the remaining moisture to be released as it works its way out of the buds. Wet colas will quickly develop mold in sealed jars. If any ammonia-scented odor is detected, the buds should be immediately removed so that the drying process can continue. Jars in which buds have been curing properly for over a week only require opening once every day or so. Buds will continue to mature, developing intense flavors and characteristics. Studies have shown that a proper cure can significantly reduce the level of nitrogen, resulting in a smoother, more tantalizing smoke.

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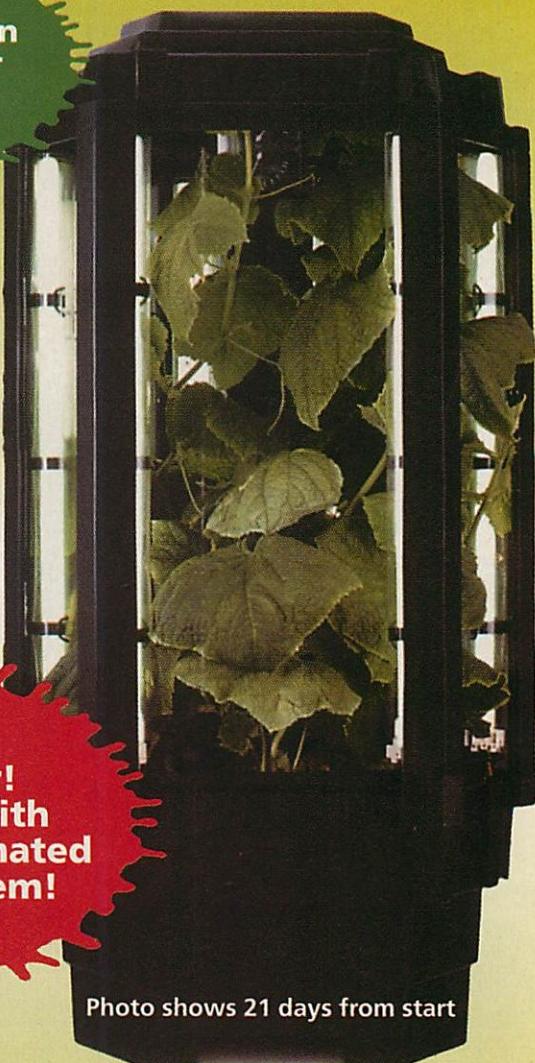
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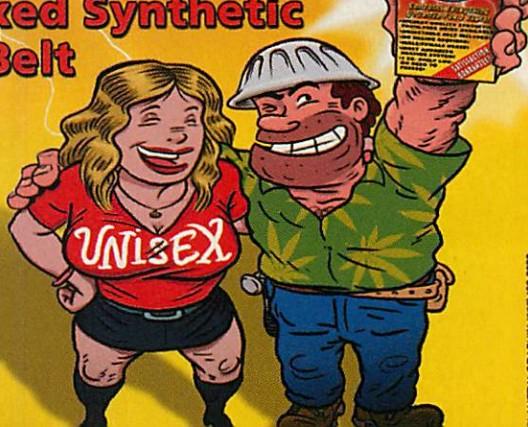


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SEX IN THE GROW- ROOM

HOW TO TELL WHETHER YOUR HORNY PLANT IS MALE, FEMALE OR HERMAPHRODITE.

BY DANNY DANKO

Growers are obsessed with sex. Above all, they want to know whether their pot plants are male or female. Female cannabis flowers produce the sticky buds we all desire, while males are virtually useless except to those interested in doing their own breeding. In fact, one male plant can ruin a whole crop of flowering virgin females by pollinating them, filling the buds with seeds and wasting all their blooming energy on pregnancy instead of focusing it on swelling nuggets.

Is it possible to determine the plant's sex while it's still in seed form? Unless the seeds come from suppliers who specifically breed female seeds, this isn't possible. Plants must be grown out to determine whether they're

male or female. It is possible, however, to figure out the sex of a plant fairly early in its growth cycle. One of the easiest ways to do this is to take a cutting of the growing plant and induce the rooting clone to flower to show sex. The donor plant continues to grow in its vegetative state, while the flowering cutting reveals the parent's gender.

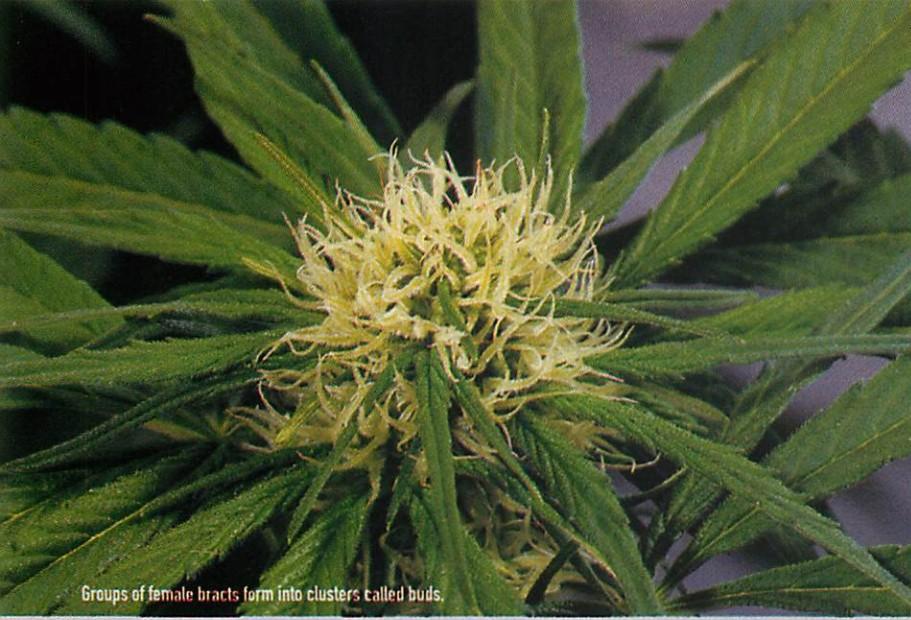
Plants grown indoors under lights spend the first stage of their lives receiving 18 to 24 hours of light per day. This vegetative period, simulating summertime, allows seedlings to establish the healthy roots, branches and foliar growth necessary for higher yields down the road. Some growers vegetate plants for more than a month in order to grow huge bushes in large containers. Sea of Green growers limit this vegetative time to just a week or less, but they compensate by growing more

plants and spacing them closer together. Either way, a plant will continue to grow in its vegetative state until it is triggered to flower.

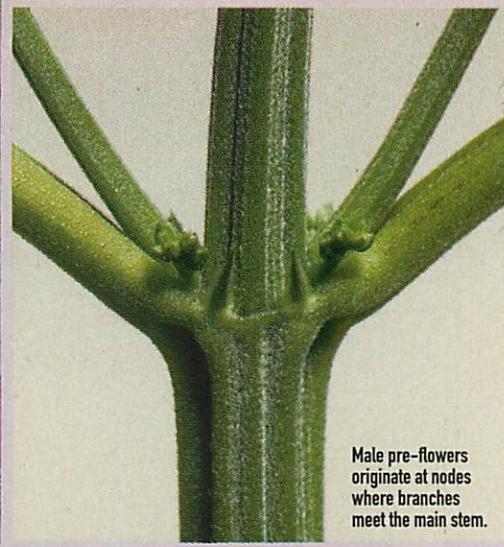
The flowering process for both males and females begins when plants are exposed to complete darkness for 12 or more continuous hours per day. Indoors, the photoperiod is controlled by the grower, who sets the timer for a 12-hour-on/12-hour-off daily lighting schedule; outdoors, the sun's diminishing rays in early autumn force cannabis to bloom. Flowers will begin to indicate gender a week or two into the flowering cycle. *Indicas* will show sex sooner than *sativas*, so be patient with the longer-flowering varieties.

A close-up photograph of a plant's male flower structure. The image shows several small, yellowish-green, teardrop-shaped flowers hanging from a central stem. The background is dark and out of focus, making the bright flowers stand out.

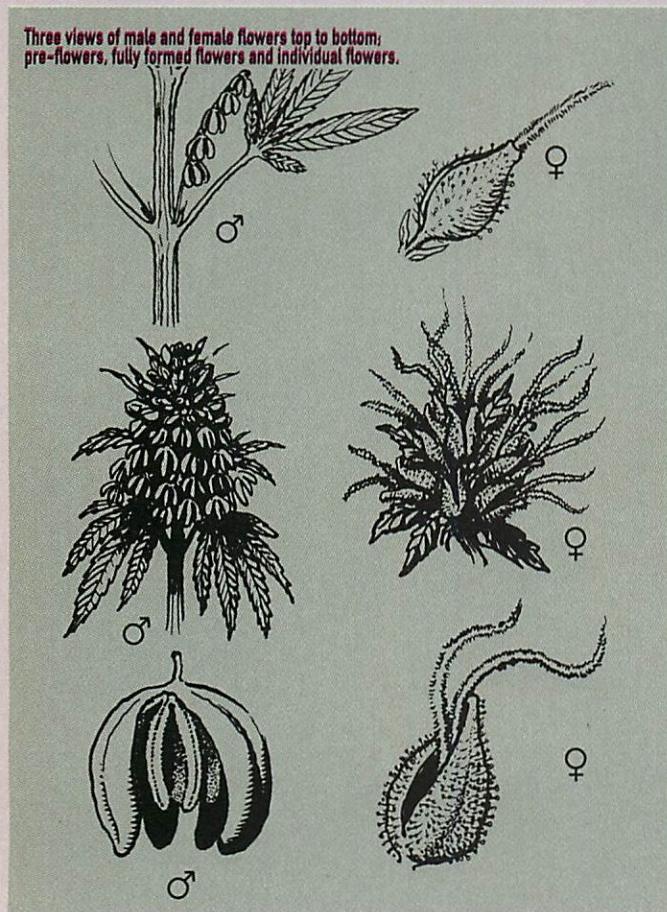
These male flowers will soon open and release their pollen.



Groups of female bracts form into clusters called buds.



Male pre-flowers originate at nodes where branches meet the main stem.



The dreaded hermaphrodite shows both male and female flowers on the same plant.

a closed fist at the end of a very short arm. Some liken them to mushrooms or to a ball-on-a-stick shape. If you're not sure about the pre-flowers, wait it out—there won't be any damage done at this point. You have plenty of time to become certain before doing anything drastic, like killing off all suspected males.

males

A week or two into flowering, when males truly begin to become apparent, their flowers will look like a miniature bunch of bananas hanging down as they slowly begin to fill with pollen. You have less than a week to remove the males from your garden at this point, before they release their pollen and seed your entire crop. If you're interested in experimenting with seed breeding on your own, keep the males alive in a separate area well away from the females. They don't need to thrive—just keep them alive with fluorescents or low-wattage grow lights. Place paper under the plants when the male flowers look close to popping open. Once you've collected the pollen, place it in a dry, sealed container. Lightly sprinkle or brush the male pollen onto developing female flowers to create seeds for future crops.

PRE-FLOWERS

Experienced growers can sometimes recognize the sex of their plants earlier than the flowering period. When propagated from seeds, plants will begin to show pre-flowers after a month or so of vegetative growth. These appear in the middle of the joint, or node, where individual branches leave the main stem. Use a loupe or magnifying glass to examine the node. Keep in mind that both sexes will show stipules, the leafy spikes that protrude from each node. Above the stipule is where tiny pre-flowers emerge. Females indicate themselves with stigmas, or fuzzy white hairs, that extend outward from a teardrop-shaped bract (also known as a calyx). Male pre-flowers don't have pistils; each one resembles

FEMALES

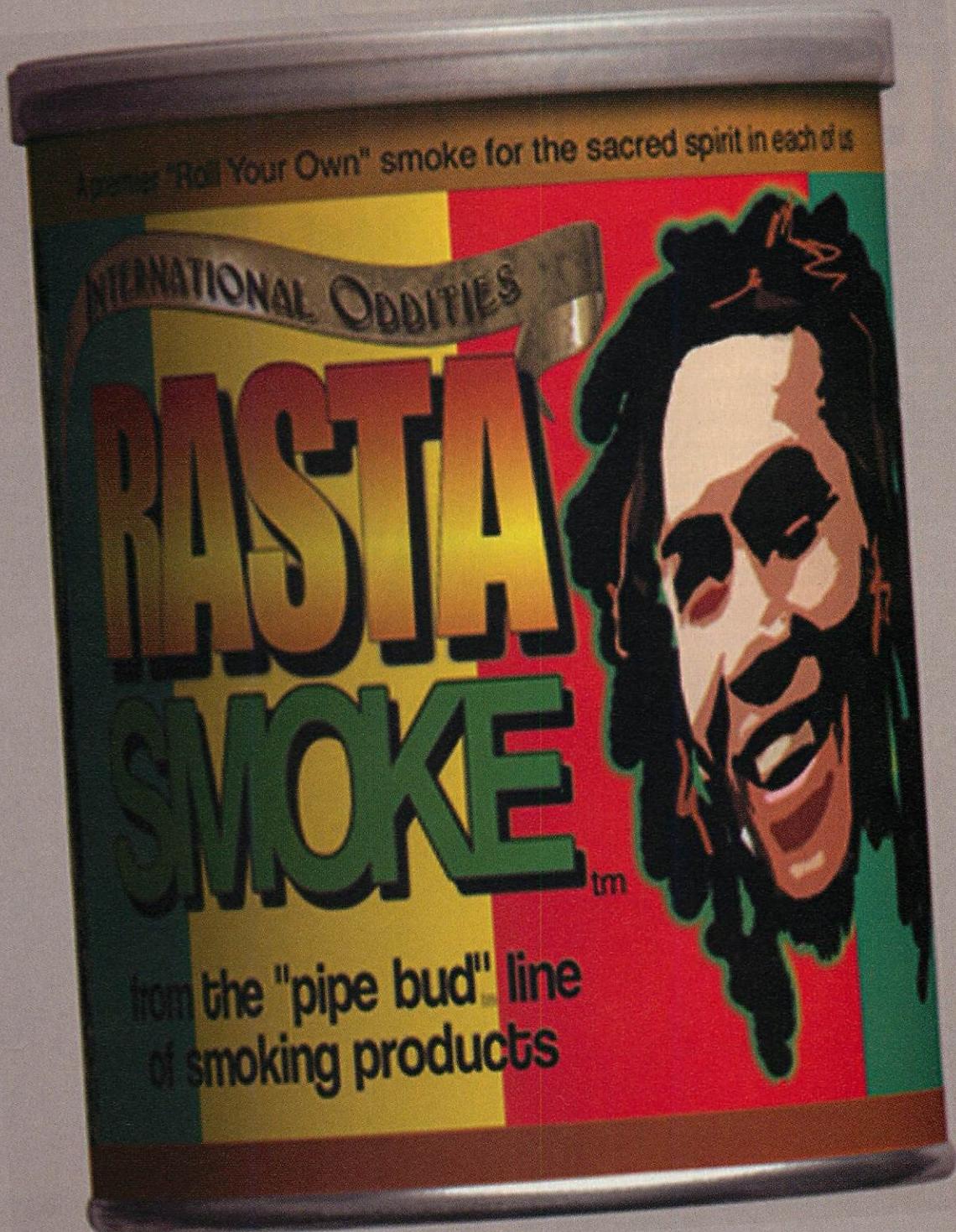
Female flowers begin to show as bracts at the various bud sites that occur at branch nodes and tips. Two white hairs (stigmas) will emerge from the end of each pear-shaped bract, looking very much like their precursor female pre-flowers. The bracts gradually swell, becoming covered in a "resin" made up of glandular trichomes—the tiny, THC-containing crystals that glisten like diamonds in the light. As the female flowers mature, thousands of these bracts form into the clusters known as buds, eventually filling branches to form long colas. Kept free of male pollen and fed with the finest in phosphorous-rich nutrients, females will swell in size, producing trichome-laden buds just begging to be consumed.

HERMAPHRODITES

When a plant shows both male and female flowers, it's considered a hermaphrodite and should be immediately removed from the garden. Whether you use these for cooking, making bubble hash or tossing into the compost pile, get rid of them as soon as you discover them. Some unstable *sativas* will show male flowers late into flowering. The yellow male "bananas" that pop out from almost fully formed buds can be removed as they're found and will do little damage at this stage. *

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7TH ANNUAL HYDRO REPORT

BY DANNY DANKO

"To grow or not to grow hydro?" That is the question most frequently asked by readers taking their first steps toward cannabis cultivation. We may not solve that riddle (the answer lies within each individual person), but we'll highlight the advantages of hydro and showcase the wide variety of new technology available to help generate huge hydroponic harvests.

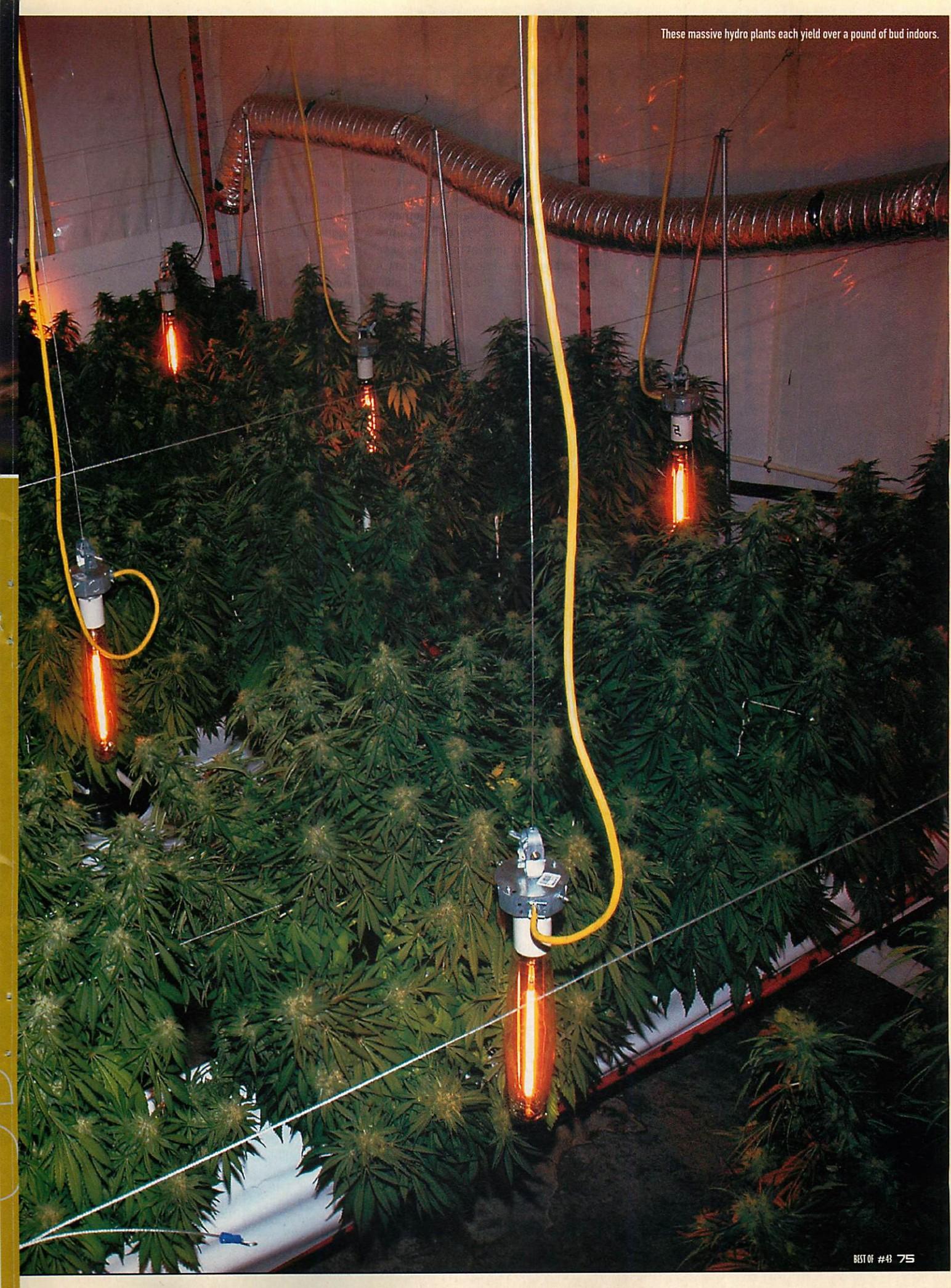
WHAT IS HYDRO?

The science of growing plants without soil is as old as the Hanging Gardens of Babylon and as cutting-edge as long-term space-exploration experiments by NASA. Plant roots, unencumbered by soil or dense soilless mixes, receive more oxygen while absorbing nutrients directly from a liquid solution fed at regular intervals. The roots exhibit explosive growth, and hydroponically grown plants quickly outpace their counterparts in soil-based mediums. With nutrients and oxygen supplied at proper rates, cannabis grown in water-based systems flourishes, providing larger yields more quickly.

City dwellers often grapple with the problem of how to dispose of spent soil mix after usage. Many hydroponic growers simply rinse out their units and grow rocks at the end of a cycle and start over. Soil mix also encourages pests by giving them a haven and home base from which to attack. Growing without soil helps keep bugs to a minimum. Several different types of hydro systems are available from a variety of retailers.



These massive hydro plants each yield over a pound of bud indoors.



H2O

TWENTY HOT HYDRO TIPS



Strong plants exhibit healthy root systems.

TRAY SYSTEMS

The most popular and widely used hydro units are tray systems. Plants sit in trays with their roots anchored by grow rocks (expanded clay pellets), rockwool or coco peat. At regular intervals, nutrient solution is pumped from the reservoir into the table, temporarily flooding the root zone. The solution then drains back into the reservoir, allowing the roots access to oxygen. Some tray systems use drip emitters to feed nutrient solution to plant roots from above.

First-timers might want to start with the tried-and-true **Emily's Garden** from Hydrofarm, a complete system built to grow six medium-size plants. Hydrofarm also makes great tray systems, among them the **Megagarden** and **Homegarden** units. Another great tray unit for beginners is the six-plant system from **EZHydroKit**. It comes with lighting (stand included), grow rocks, nutrients and all the other equipment necessary to get started.

The **Turbogarden** series from Jetgro by American Agritech suits the intermediate grower looking for a variety of options. Choose between ebb-and-flow or top-fed drippers; there's even an aeroponic version for advanced growers. General Hydroponics makes the **EuroGrower**, a versatile tray system that employs drip irrigation and is constructed to house up to eight medium-to-large plants.

Larger 3' x 3' and 4' x 4' tables are perfect for growing bigger plants under single 400- or 600-watt grow lights. Easily expandable units include American Hydroponics' **Ebb & Flow** and **Bigfoot** systems and American Agritech's **Jetflo** series. Many custom sizes are available from these and other manufacturers for do-it-yourselfers to accommodate varying space requirements. Commercial farmers with larger spaces should try the **Boss-RV** from West Coast Growers, a wheel-mounted stand-alone 10-foot-square system with four 1,000-watt lamps on a circular mover. This monster of a unit will yield 5 to 10 pounds per cycle under proper conditions.



1 First rule of Hydro Club is, **do not talk** about Hydro Club.

2 Keep water temperature no higher than 70°F and no lower than 60°F. At higher temps, oxygen is depleted and the risk of root rot increases. Cold temps can shock plants. Keep temps in check with either an aquarium heater or a reservoir chiller.

3 When growing hydro with organic fertilizers, add **beneficial microbes** (such as General Hydroponics SubCulture) to your reservoir to help break down nutrients for easier root absorption.

4 Keep **pH levels** between 5.8 and 7.2 (depending on the strain) at all times. Once you know your strain's preferred pH, keep it as close to that number as possible.

5 Use air pumps and airstones to **oxygenate** your nutrients. Roots need access to fine bubbles of oxygen to thrive.

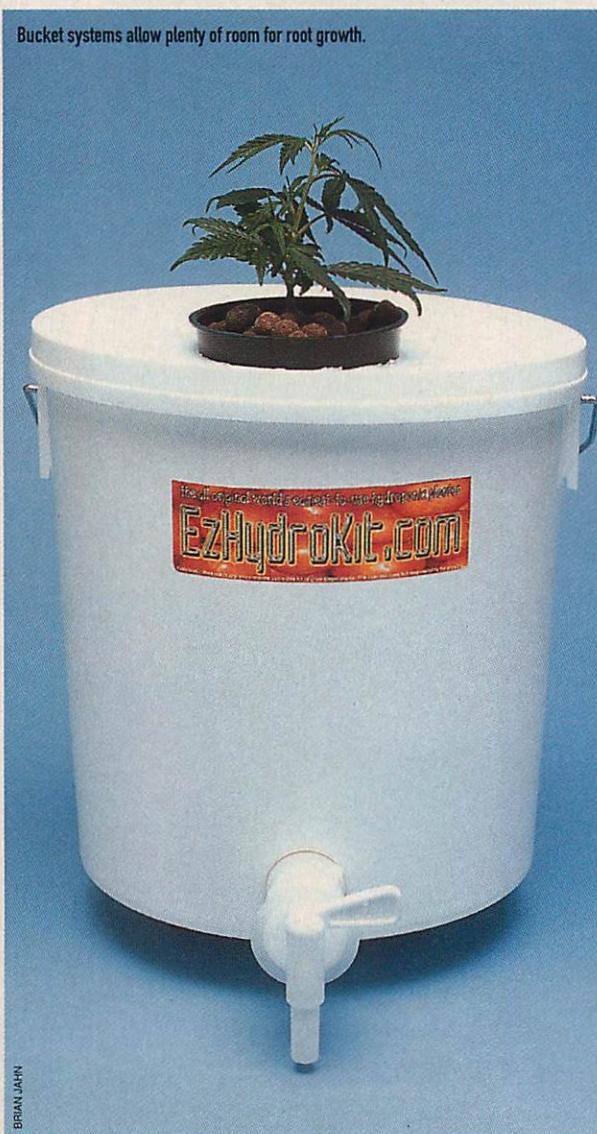
6 Measure the amount of nutrient solution in reservoir with a TDS (total dissolved solids) meter.

7 Plants growing hydroponically quickly deplete available CO₂. Be sure to provide extra CO₂ gas with a tank and regulator or a CO₂ generator. Plants will thrive at 1,500 ppm (parts per million).

8 Remember to **foliar-feed** your plants with water or a mild nutrient solution. This provides extra nutrients and washes off dust and residue that can hamper photosynthesis.

9 Maintain your **humidity level** between 40% and 60%. High humidity will encourage mold, while low humidity can attract pests. **CONTINUED ON PAGE 78**

Bucket systems allow plenty of room for root growth.



BRIAN JAHN

BUCKET SYSTEMS

Success with hydroponics means meeting the needs of growing roots. The bigger the root system, the bigger the plants. This simple rule is the basis for bucket systems: Provide space for roots to stretch out, and their corresponding branches will be massive. Bucket systems also offer the benefit of mobility, making it convenient to move plants apart as they grow to provide more space to expand.

WaterFarms from General Hydroponics can work as a stand-alone system to grow individual plants, or they can be combined, using a controller kit, to regulate eight or more buckets. The **Ebb & Gro** bucket-control system is easily expandable and perfect for growing huge bud bushes.

The **Bubbler Systems** from GSS Hydroponics provide deep-water culture (DWC) technology at a low price. **EZHydroKit's** individual units are perfect for beginners just getting their feet wet. They come fully equipped with nutrients, lights and other essentials. American Agritech's **Sologro** works great for flowering or for growing a vigorous mother plant.

DANNY DANKO

MARIJUANA

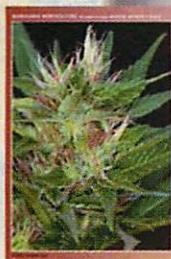
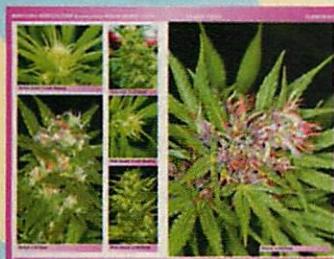
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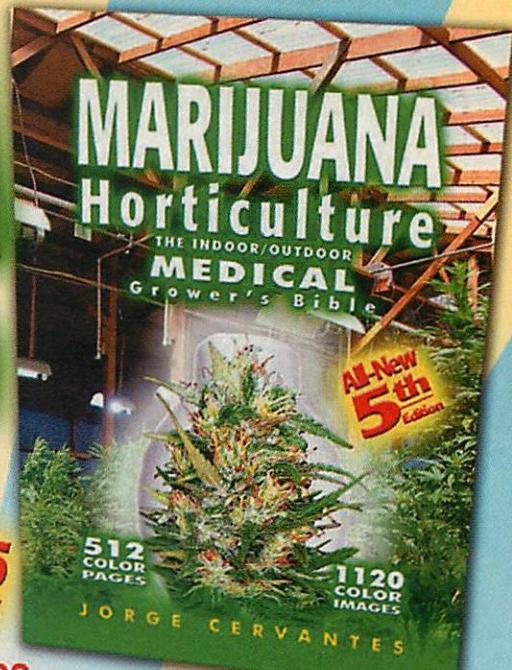
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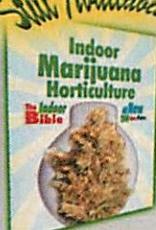
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Jorge chronicled five grow-shows beginning to end. How to layout and construct grow rooms including cost. How to grow a gram of dried sinsemilla per watt of HID light - every last detail! How to choose a safe house, build a grow room and cloning chamber, install ventilation, hydroponic gardens and grow lights.



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- Jorge Cervantes



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Jorge Cervantes

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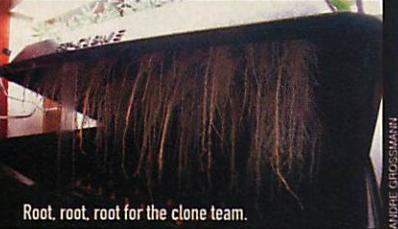
Jorge, in "Jorge's Rx" column in HIGH TIMES magazine, solves growers' problems each month with definitive clarity. This book is a compilation of the best questions and answers from the column. It is packed with the most current grow information and questions from growers. Countless cultivation questions are answered, each one helps you harvest heavy!



H2O

TWENTY HOT HYDRO TIPS

CONTINUED FROM PAGE 76

- 10** Cover your reservoir to prevent algae growth. Any water surface exposed to light will encourage mold, so maintain a light-tight environment anywhere your nutrient solution flows.
- 11** A reverse-osmosis (RO) machine will soften hard water to reduce calcium and magnesium buildups and prevent hard-water damage to leaves.
- 12** Air temperature should never go above 90°F. Keep it below 80°F to promote and encourage growth.
- 13** Customize your measuring cups to correspond to the size of your reservoir.
- 

Root, root, root for the clone team.
ANDRÉ GROSSMANN

- 14** When using flood-and-drain or ebb-and-flow systems, be sure the roots have enough time between feedings to prevent overwatering and consistently soggy mediums.
- 15** Never allow water pumps to draw air. Always keep reservoir levels above half-full to avoid salt buildup and wild pH fluctuations.
- 16** Completely drain and replace all nutrient solution in the reservoir at least once every two weeks. You can dilute it and use on houseplants or outdoor gardens.
- 17** Use a mild nutrient solution or plain pH-balanced water for the last week of growth to flush roots and plant cells of excess salts. Your buds will burn smoother and taste better.
- 18** Keep all electrical equipment off the floor and mounted on the walls. If there's a flood, this will save you from shorting out your equipment as well as from potential fire.
- 19** Store your nutrients in a cool, dry place—not in your grow chamber. Heat and light affect the quality of your fertilizer.
- 20** Never throw waste from your hydro room away with your regular trash. Bag it separately and dispose of it discreetly.



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DAN SKYE

AEROPONIC SYSTEMS

By far the fastest growth comes when roots are misted with fine nutrient solution. Absorption rates of dissolved oxygen and nutrients increase dramatically in aeroponic applications, resulting in huge plants. Often, regular hydro systems are upgraded with misters or foggers to improve their outputs as well. More and more companies are incorporating aeroponic technology into their units. Due to clogging issues, however, these systems are not for the amateur grower.

General Hydroponics leads the way with their AeroFlo2 series. American Agritech also offers a whole line of aeroponic units, including the popular Aerojet. Many companies are working on incorporating aeroponic technology into existing units for better performance and explosive growth.

SYSTEMS	PRICE	MIN. DIM.	# PLANTS	FEED TYPE	MEDIUM	RSVR. SIZE
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Turbo Tank	\$100	2' x 3'	12	Flood-and-Drain	Grow Rocks/Rockwool	25 gal.
Emily's Garden	\$89.95	16" x 24"	6	Hand-Fed	Grow Rocks	1.5 gal.
GH EuroGrower	\$349.95	2' x 4'7"	8	Drip	Grow Rocks	40 gal.
E&F	\$299.95	3' x 3'	9-15	Flood-and-Drain	Grow Rocks/Rockwool	30 gal.
Bigfoot	\$309.95	45" x 26"	12-26	Flood-and-Drain	Grow Rocks/Rockwool	25 gal.
Jetflo Econo	\$149.95	2' x 2'	6-12	Flood-and-Drain	Grow Rocks/Rockwool	20 gal.
BUCKET SYSTEMS (DWC)						
GH WaterFarm	\$54.95	1" x 11"	1	Drip	Grow Rocks	4 gal.
GSS Bubbler	\$24.95	1" x 1"	1	DWC/Drip	Grow Rocks	5 gal.
EZHydroKit	\$69.95	1" x 1"	1	DWC/Drip/E&F	Grow Rocks	2 gal.
SoloGro	\$198.95	15" x 19" x 18"	1-4	DWC/Drip/E&F/Aero	Grow Rocks	3.3 gal.
Ebb & Gro	\$599.99	adjustable	12	DWC/Ebb-and-Flow	Grow Rocks	55 gal.
AEROPONIC SYSTEMS						
GH AeroFlo2 20	\$349.95	1' x 6'	20	Aeroponic	Grow Rocks	8 gal.
GH AeroFlo2 30	\$549.95	2' x 6'	30	Aeroponic	Grow Rocks	20 gal.
GH AeroFlo2 36	\$699.95	4'2" x 4'7"	36	Aeroponic	Grow Rocks	40 gal.
GH AeroFlo2 60	\$999.95	5'1" x 6'10"	60	Aeroponic	Grow Rocks	40 gal.
Aerojet 2-Tray	\$499.95	44" x 30"	12	Aeroponic	Grow Rocks	20 gal.
ROTATING SYSTEMS						
Omega Basic	\$4,795	48" x 56" x 68"	50-300	Flood-and-Drain	Rockwool	25 gal.
Omega Complete	\$5,795	48" x 56" x 68"	50-300	Flood-and-Drain	Rockwool	25 gal.
GI Grow 144 Site	\$3,000	65" x 32" x 60"	144	Drip	Rockwool	20 gal.
GI Grow 336 Site	\$5,100	73" x 68" x 73"	336	Drip	Rockwool	30 gal.
Roto-Gro 240	\$4,450	50" x 60" x 64"	240	Flood-and-Drain	Rockwool	100 gal.
Roto-Gro 312	\$4,750	50" x 71"	312	Flood-and-Drain	Rockwool	100 gal.

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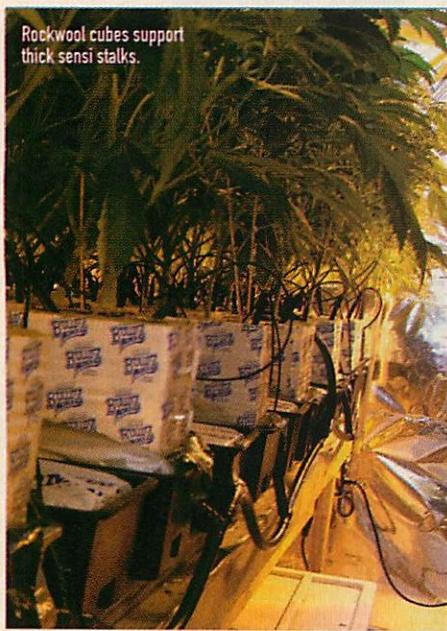


ROTATING SYSTEMS

Recent innovations in hydroponic farming have literally turned the industry upside down. Several different units are now available that rotate plants 360 degrees around a centrally located light source. These systems take space efficiency to a whole new plateau by utilizing all available light without diffusion from reflectors. Plants in rockwool slabs revolve slowly, picking up nutrient solution from the reservoir underneath the unit. Plants should be kept short in a "Sea of Green" configuration to optimize the benefits of these revolutionary systems.

The **GI Grow** from West Coast Growers feeds plants from above using an ingenious injection system. **Omega Garden** makes a sturdier unit that stands up to the abuse of harvest after harvest.

GI Grow, available from West Coast Growers, 888-924-4769, westcoastgrowers.com
Omega Garden, 877-962-3278, omegagarden.com
Roto-Gro, 877-768-6476, rotogro.com



ROCKWOOL THE OTHER GROW MEDIUM

BY BIG CROPPA

Whether you grow hydroponically or in soil, rockwool probably plays a role in your garden. This man-made, heat-spun plant medium formed from volcanic rock can be your best friend when you're using it and your worst enemy when you're looking to dispose of it.

Made popular by Dutch indoor growers back in the '70s, rockwool has become a staple of the hydroponic industry. It's utilized in every type of hydro system, from ebb-and-flow to aeroponic. This coarse medium can be used during all stages of plant

growth or simply as a rooting block for baby clones. Because of its ability to retain water for up to a day, rockwool is chosen by many as the heart of their growing systems.

The first thing you need to know about rockwool is that the base pH is significantly lower than the base pH of soil. Most hydro systems using rockwool must keep a pH range of 5.1 to 6.0, with 5.3 being optimal. Soil usually requires a pH range of 6.7 to 7.1. If you don't pay attention to the pH differential, it could negatively affect

your final yield. High pH will cause your plants' roots to "lock up," and they won't be able to absorb the correct amount of nutrients.

Another key factor that could cause your roots to lock up is the temperature of the water in your hydro system. With soil-grown plants, water temperature isn't as important as it is in hydro systems. Cooler water fed to soil-grown plants can be warmed by the light in the room while waiting to be absorbed by the roots. In hydro systems, the water comes in

CONTINUED ON PAGE 82

HOT NEW HYDRO PRODUCT

The Nutramist fogger creates a humid cloud of nutrient solution and can be used to upgrade almost any kind of hydroponic system. An electronically nebulized multi-micron mist of water and soluble nutrients feeds roots at astonishingly high rates. Fine root hairs absorb the fuel they need to thrive. As a result, your plants will flourish, filling out quickly. The Nutramist fogger provides your cannabis plants with immediate access to water, food and oxygen at optimum levels.

Nutramist fogger, available from Futuregarden, 888-338-3305, nutramist.com



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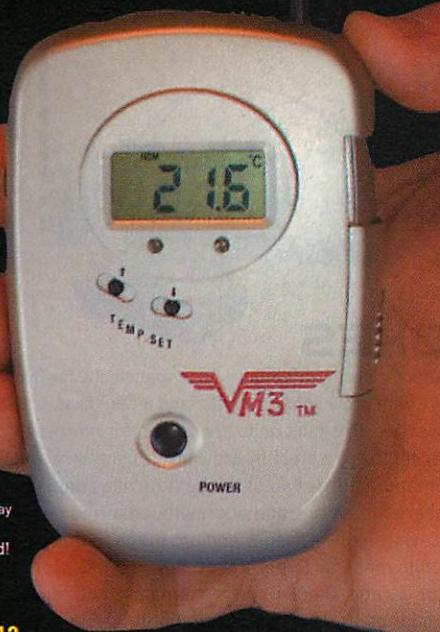
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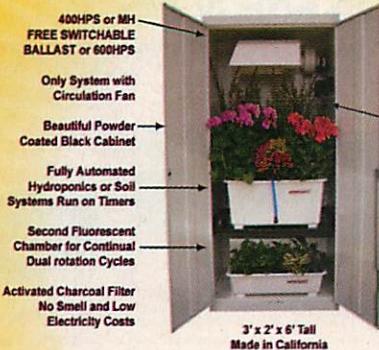
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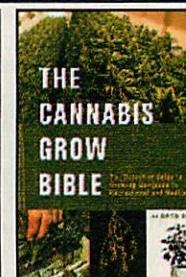
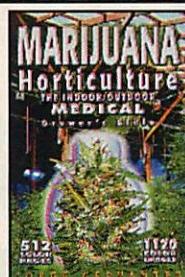


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ROCKWOOL

CONTINUED FROM PAGE 80 direct contact with the roots. Just think of what it's like to jump into a cold pool—plants react the same way. The best temperature range for a hydro rockwool system is between 70°F and 78°F, with 75°F being optimal.

Deciding what type of rockwool is best for your hydro system is the next step. Rockwool comes in many sizes, from crouton size to 6" x 6" cubes. Slabs are also available for drip-tray systems. Clones rooted in smaller cubes can be transplanted into larger blocks for vegging and flowering or planted directly into soil once roots are evident.

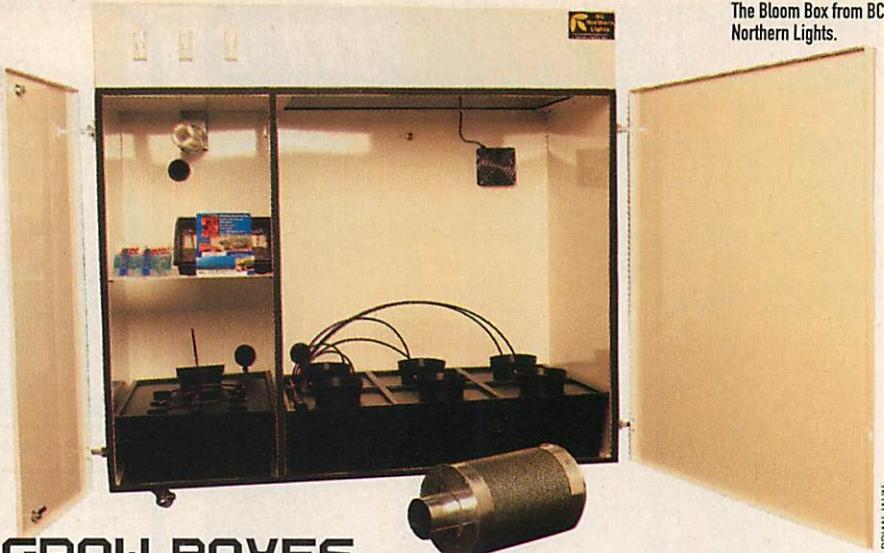
The first hydro garden I ever had was a drip-tray system that utilized rockwool slabs and 4" x 4" cubes. It took some time to learn the feeding techniques and correct nutrient levels. With the help of an old-school hydro grower, my learning curve was much improved; having a seasoned veteran to learn from was probably the best help I've ever had. Once I'd been growing for a while, I started manipulating the garden to fit my changing needs and desires.

After learning and perfecting my buddy's techniques for about a year, I began making changes to increase the overall production level. I started by switching from 4" x 4" to 6" x 6" blocks. This allowed for a wider root system, which produced bigger plants (remember that a plant will only grow as large as its root system allows). I was still utilizing slabs at that point because I was growing bigger plants.

Now I grow a larger number of smaller plants. I've found that by growing smaller plants with 6" x 6" cubes, I don't need the rockwool slabs anymore. The cubes provide plenty of space for the plants' root systems. I allow the roots to grow out of the bottom of the blocks and into the leach trays, giving them access to fresh air. When using this method, light must be kept from reaching the exposed root surface and killing the plant.

The one downside of rockwool is that it's hard to get rid of, even though it's biodegradable. And because of its rocky composition, it's noncombustible. Thus, it should be handled like any other sensitive refuse and removed accordingly. One tip I can give you about rockwool disposal is to stop feeding your plants about two to three days before cutting them down. This will allow the plants' root systems to suck up any last drops of water remaining in the slabs and blocks. If you've used rockwool in the past, you know how heavy wet blocks can get. A garbage bag full of dry cubes is much easier to carry and to compress than a bag full of dripping ones. Your plants will also respond better to this: It signals that the end is near and that they should spend all their energy on flowering.

Even though rockwool is an itchy material that can get under the skin and drive you crazy for hours, I couldn't imagine growing without it. No matter what system or style you use, rockwool provides more options than any other medium on the market.



BRIAN JAHN

GROW BOXES

Several companies manufacture grow chambers built specifically for hydroponics. Most of these all-in-one kits come complete with grow lights, exhaust and intake fans, trays and reservoir, as well as nutrients and other accessories. Pre-built units are perfect for novices who just want to get started growing quickly. Money spent to buy a stealthy grow box is usually recouped with the first harvest.

BC Northern Lights manufactures two of the best turnkey units on the market. Their **Bloom Box** has separate chambers for every stage of growth, ensuring perpetual harvests. The **Producer** combines two 430-watt high-pressure sodium bulbs to flower 18 full-size plants in a 27" x 54" x 46" space. The units made by **Supercloset** look just like storage cabinets, making them perfect for a basement or garage. **Quick Grow** systems are both durable and easy to set up. They handle everything from odor control to feeding and lighting schedules.

Power Grow manufactures a unique, two-tiered, 600-watt system that maximizes yields in small spaces. For those interested in growing just one plant, the **Phototron** provides plenty of light and perfect conditions for a bonsai masterpiece.

BC Northern Lights, 866-933-3269, bcnothernlights.com

Phototron, 800-651-2837, phototron.com

Power Grow, 888-647-5577, powergrowusa.com

Quick Grow, 877-788-4769, quickgrowcanada.com

Supercloset, 877-402-4639, supercloset.com

HYDROPONIC NUTRIENTS



Botanicare nutrients provide essential food sources for plants.

After deciding what kind of hydro system is right for you, you'll need to find the nutrients that best suit your plants. Do some research on the various companies and the products they offer, keeping the medium and system of your choice in mind. Thick, organic nutrients may clog an aeroponic spray emitter, so you'll want to find a food that's more easily dissolved. The companies listed below all offer base-nutrient lines as well as a variety of additives and supplements to improve nutrient uptake and effectiveness.

Advanced Nutrients, 877-604-8637, advancednutrients.com

Botanicare, 877-753-0404, americanagritech.com

Canna, canna-uk.com

Doc's Simple Solutions, 888-423-4015, docssimplesolutions.com

DynaGro, DynaBloom, 800-396-2476, dyna-gro.com

Earth Juice, earthjuice.com

General Hydroponics, 800-374-9376, genhydro.com

Ionic, hydrodynamicsintl.com

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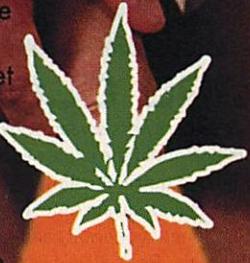
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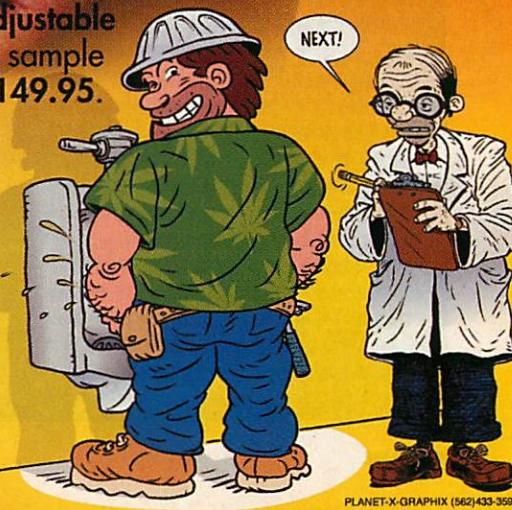
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The Whizzinator is to be used in accordance with all Federal, State and local laws. The Whizzinator is not a medical device.



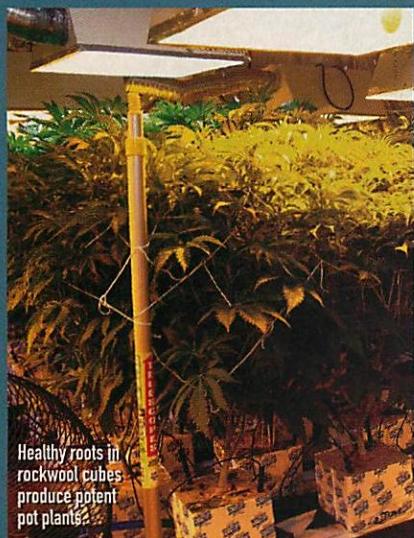
ROCKWOOL

Some things to know about getting a drip-tray system started

If you're interested in making yourself a drip-tray system for the first time, there are some things you should know before getting started:

One important point for drip systems is flooding the rockwool cubes. If you use drippers, you need to soak your cubes for at least three to six hours before use. If you don't soak the cubes thoroughly, when you stake your drippers in the blocks, water channels will form straight down the cubes and the water won't be properly distributed, causing small root structures that will lead to smaller buds.

Always be sure to keep all of your trays at angles so that the water will drain properly. If your water doesn't drain back to your reservoir, it'll collect in the leach trays and become stagnant, causing algae and mildew to form a green slime on the rockwool. Water conditioners like Sensizyme, Hygrozyme and



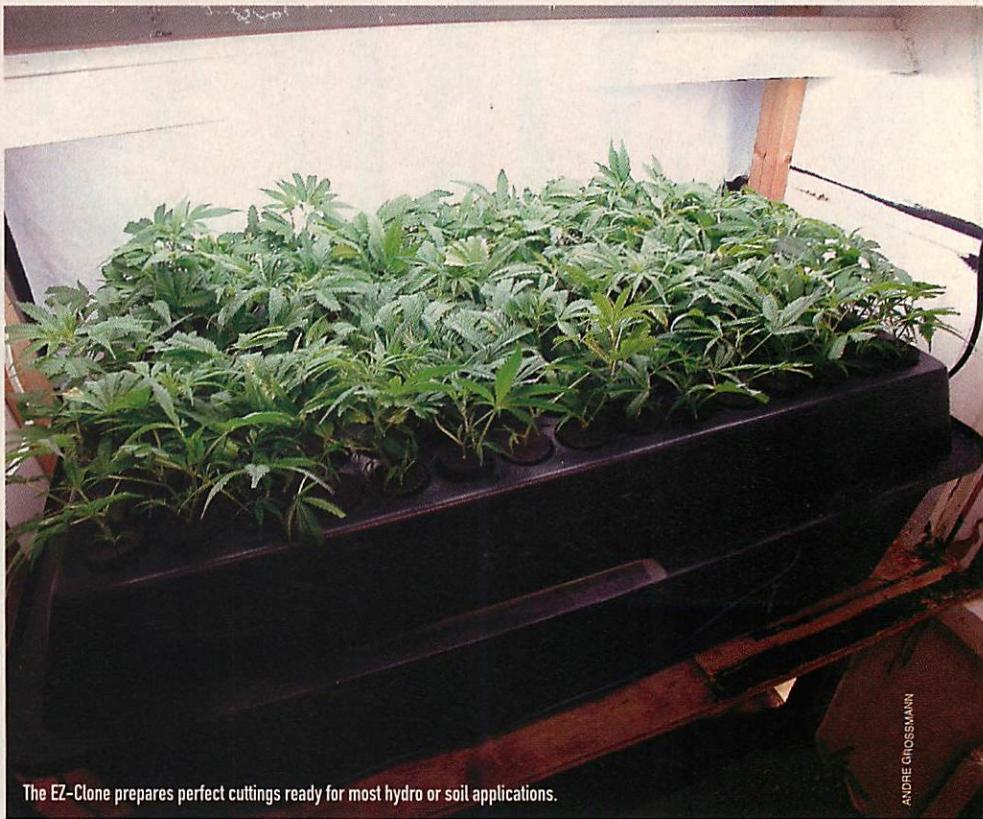
Healthy roots in rockwool cubes produce potent pot plants.

SM-90 help fight the buildup of these slimes.

And finally, there's the feeding cycle. Probably the most important element of your hydro garden is the feeding cycle, which should vary throughout your grow cycle. The main reason for change is the growth of the root system. In the vegetative and early bloom stages, your root systems are small and suck up a lot of water and nutrients, so you may only need to feed your plants a couple of times. But as the plants grow larger, you'll need to increase the duration and increments. Also, be sure not to feed your plants during the nighttime hours (feeding during the night increases the chance of algae and mildew). If you're a budget grower, you can find a cheap digital timer at your local hardware store. If you're a more of an advanced grower, a Cyclostat 4P from Green Air with a built-in photo sensor that disables (or shuts down) the timer at night is the best choice.

HYDROPONIC NECESSITIES

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The EZ-Clone prepares perfect cuttings ready for most hydro or soil applications.

ANDRE GROSSMANN

HYDRO CLONERS

Even many soil growers swear by hydroponics as the quickest and most efficient way to root a cutting. Roots pop out of the exposed, cut end of a clone within three to five days when misted with mild oxygenated nutrient solution, while with traditional rooting methods, cloning may take up to two weeks. Besides saving time, hydroponic cloning methods increase success rates into the 90th percentile. Clones root evenly and uniformly for a level canopy throughout their growth cycle.

EZ-Clone, the Rolls-Royce of cloning machines, roots cuttings more quickly than any other method we've tried. A constant mist sprayed at the cut ends provides the perfect environment to induce rooting of clones. Cheaper yet equally effective, the **Botanicare** power cloner can be customized for up to 145 individual cuttings. The **GroClone**, a more compact unit, works well under minimal light, while **Deep Water Innovations'** cloning systems utilize deep-water culture to root clones evenly and uniformly. *

Botanicare power cloner, available from West Coast Growers, 888-924-4769, westcoastgrowers.com
Deep Water Innovations cloning systems, dwinnovations.com
EZ-Clone, 866-392-5663, ezclone.com
GroClone, 916-391-9500, groclone.com

HYDRO HINT

Never discuss marijuana or any illegal activity when dealing with legitimate hydroponic retailers!

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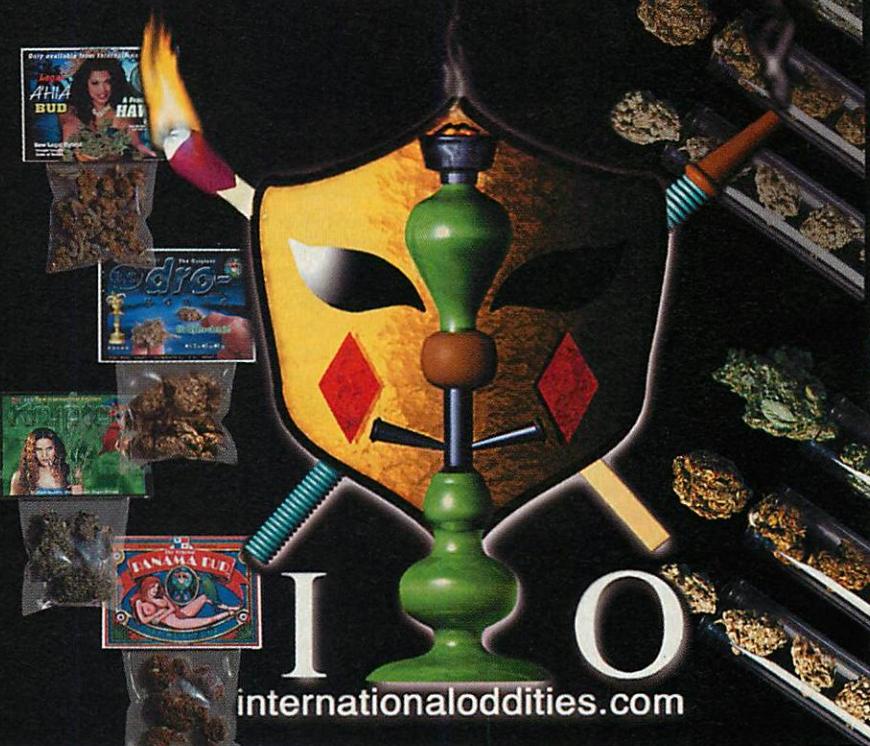
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CONFESIONS OF A HASH LOVER

A Canadian grower utilizes two popular methods of hash making and discovers the pleasures of a unique new product called the Rubble. Story and photos by the Cannabis Cowboy

The debate continues over which method produces the finest grade of hashish: ice-water-extracted or dry-sieved? The problem I have with water-extracted hash is a drastic loss of flavor. The smoke is powerful but also a bit harsh. I crave the tasty "blue" smoke of a Jamaican Gum or the spiciness of a proper piece of Afghani. Dry-sieved resins have spectacular aromas and textures and are gentle on the lungs.

This hazy, winding quest has led me to the path of the Rubble, a hash made using a combination of two methods. Rubble is a truly memorable smoke with the potency of bubble hash and the flavor and soaring *sativa* high of fine kif or charas.

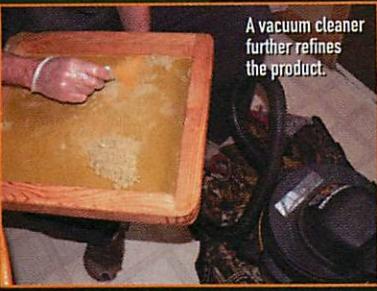
The most important factor is the ingredients with which you begin. Choose your strains based on the quality of the high and trichome content. Each strain has different-sized and -textured resins, so a little experimentation is necessary to determine whether it is more suited to water or dry-sieving. Most strains will work well with the water method; common dry-sieving methods are less likely to yield sticky resins with certain strains. Once you have found which strains work best for each method, get to work separating all those crystals from your shake.

I usually run about five times as much matter in the water-extraction bags as I use for the dry-sieve method. Most of the time the bubble bags will out-yield the dry rub in weight if you maintain a high quality by not

overworking your leaf to the point of breaking down plant matter. Get a 30x scope and check regularly to make sure your dry-sieve isn't being contaminated by green plant material and trichome stalks, diminishing the eventual quality, potency, texture and color of your hash.

Once the initial removal of your trichomes is complete, it is easy to clean the plant matter and stalks from your dry-sieved kif. Have your local silk screen supplier stretch you a 90-micron screen and a 45-micron screen (remember that silk screen sizes are measured after the screen is professionally stretched and framed; otherwise, the measurements are useless).

Dry-rub resin powder is always easiest to work with cold and immediately following the initial tumble or rub. Run your dry-sieved heads through the 90-micron screen with a card until most have passed through and then discard the remaining matter. Take the kif that has passed through and load it onto the 45-micron screen. Now the true cleaning begins; use a vacuum cleaner to suck as much through the bottom of the screen as possible. Again, use a card and work the kif through the screen, vacuuming from underneath and keeping track of your trichomes with your scope until you attain the desired purity. If you're dealing with a large quantity of kif, this process can take a fair amount of time; I would say one to two minutes per gram for a nice clean product. Once you are happy with the purity, it's time for the blending process.



A vacuum cleaner further refines the product.

BLENDING THE RUBBLE

Over the years, I've found that the best dry-sieved resin is obtained from the lovely long-flowering *sativas* with their tropical odors and wonderful oily texture. The best of my chunks are composed of between 5% and 20% dry-sieved heads.

Make sure all of your resins are thoroughly dry. I let my water extraction sit out for a good week before starting the blend. Put everything in the freezer and then into your spotlessly cleaned electric coffee grinder. Add both resins at your desired ratios, blend to a fine powder and return to the freezer. You can now test your fine vintage with a simple hand press or just sprinkle a little into your favorite bowl. You will quickly discover that the sum of the two has equaled something more beautiful than either alone.

Pressed slabs marked and ready to smoke.

PRESSING SLABS

Ask your local florist for some clear cellophane, the thickest available, and construct some envelopes sized according to the amount of material. Quickly fill them with your frozen powdered resin. Form evenly into a slab no more than a half-inch thick and seal the package with Scotch tape. Cellophane is not only waterproof but heat-resistant as well, perfect for your purposes.

Before the pressing begins, heat a cement block in your oven at about 180°F. Keep a kettle of boiling water and an empty wine bottle at the ready for the next step.

Take the slab and wrap it in four layers of newspaper folded over four times, and then moisten with hot water (don't over-soak the newspaper; it will fall apart). Place your "hashburger" into a thick-bottomed frying pan and heat slowly, maintaining the moisture with hot water from the kettle. Don't boil the slab in water; just add enough so that the newspaper stays moist. Keep heating, flipping, moistening and lightly pressing until you feel the whole slab soften and start to compress into a solid, gooey mass. Depending on the heat level, strain and purity, this will take 10 to 25 minutes of attentive frying.

You can now fill the empty wine bottle with boiling water and bring out the heated block. Quickly remove the hash from the frying pan, unwrap it from the newspaper and lay it out on the warm cement block. Use your heated wine bottle to roll out and form the slab. This is also the point when you can really bring the oils to the surface to seal your chunk for years of aging. You can perform a final press with a couple of pieces of wood and a vise to truly even out the slab and bring out the shiny sheen we so love.

Be patient and let your hash cool on a nice flat surface. Unwrap the Rubble from the cellophane like it's Christmas and call the snobbiest hash fiends you know to sample some of the true cream of the crop. The beauty of the odors and stone will increase with age, starting out more on the flowery side and evolving into spice and amber as time ticks by. *



A vise tightly presses hashish.



A warm wine bottle seals the deal.

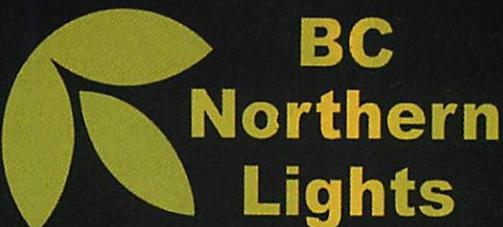


Cellophane keeps everything together.



The frying process melts trichomes.





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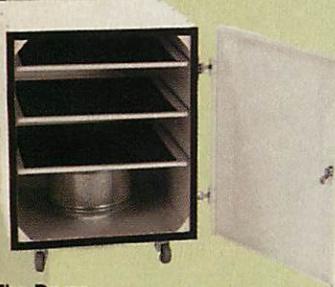
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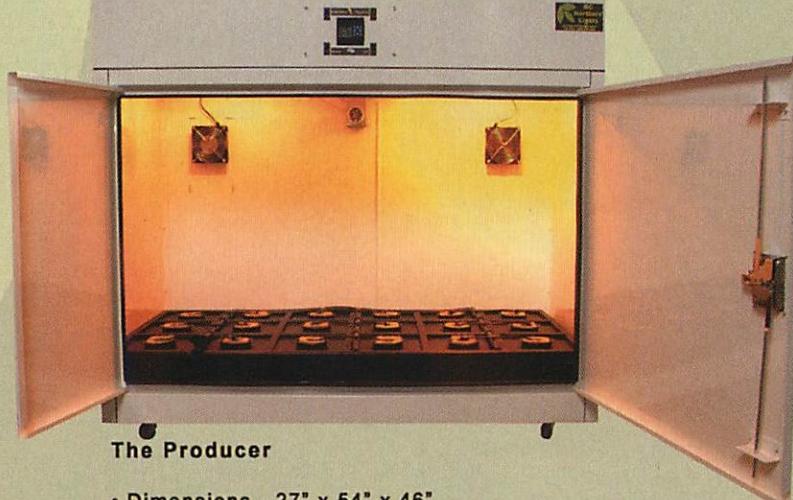
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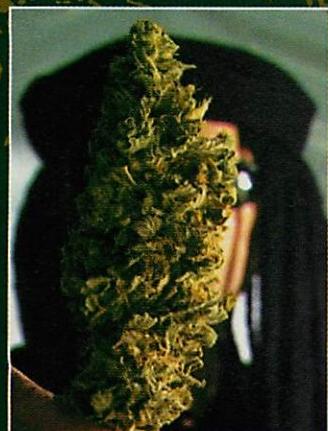
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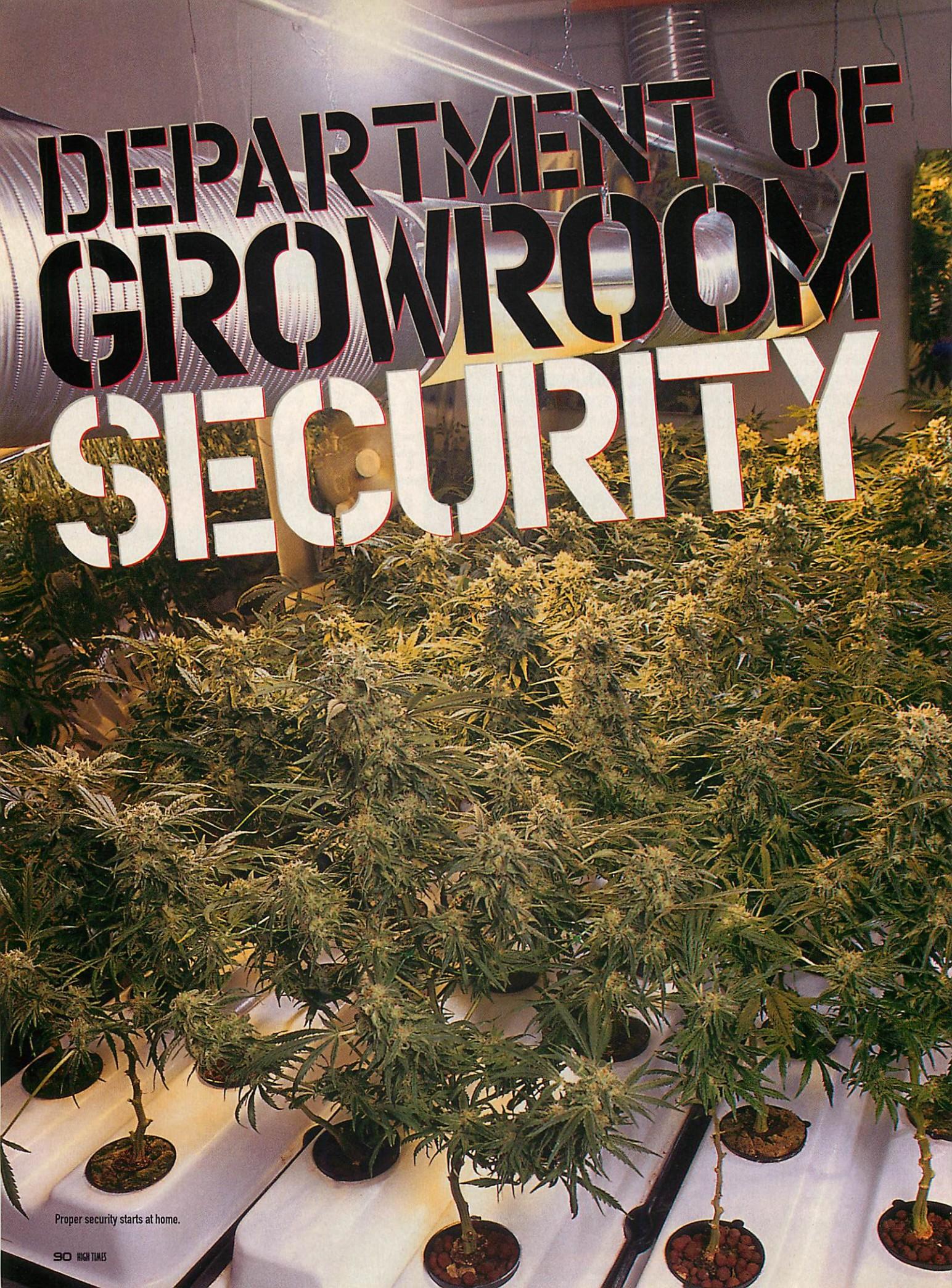
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DEPARTMENT OF GROWROOM SECURITY

A large, dense field of cannabis plants growing in a growroom. The plants are in various stages of maturity, with many showing yellow flowers. They are growing in black pots on a light-colored metal shelving unit. In the background, there are large, shiny, ribbed metal ducts or pipes. The lighting is bright, highlighting the green leaves and yellow flowers of the plants.

Proper security starts at home.



PROTECTING YOUR CLANDESTINE CANNABIS CROPS MEANS UNDERSTANDING THE LAW, STAYING QUIET AND NEUTRALIZING ODOR AND NOISE. CAN YOU KEEP A SECRET?

BY MAX YIELDS

Growing cannabis can be one of the most rewarding endeavors anyone can undertake—a challenging and relaxing pastime with a sweet, potent payoff. But we all know the downside: Growing weed is illegal, and the consequences of getting caught practicing this ancient art can be devastating. Anyone deciding to give cultivation a try should go into it with his or her eyes wide open. They should take every precaution, prepare for and know what to do in the event that the worst happens, and understand the ramifications of pursuing this particular kind of civil disobedience.

Before you begin, you must do a gut check. Understand that you're taking a risk and that no amount of planning, secrecy or luck is foolproof. If you get caught, you could be facing anything from fines and/or probation to serious prison time.

You need to understand the laws in your area, such as the difference between a misdemeanor and a felony charge and how each is determined. For example, it may surprise you to know that in some areas cultivation is only a misdemeanor, while possession can carry felony charges depending on how much cannabis is seized.

Some jurisdictions charge based on weight, which can include seeds, stems, foliage and even the root-ball. The definitions can also be quite arbitrary. In certain places, any amount up to 3 ounces and 27 grams brings only misdemeanor charges, whereas 4 ounces warrant felony charges. The difference of 1 gram can turn a legal nuisance into an absolute nightmare. You need to know where the line is drawn in your area. (For a state-by-state guide to marijuana laws, go to norml.org/index.cfm?Group_ID=4516.)

Other jurisdictions charge based on total plants seized, in which case being caught with a number of small clones or seedlings with no appreciable THC can be legally worse than being busted for possession of one huge plant with copious, potent buds. Knowing how things work in your area can help you decide which propagation and cultivation techniques to use.

Cultivation and possession are one thing; selling weed is a whole other matter. Getting busted with large quantities along with items like scales and baggies can result in much more serious charges. Consider all of these issues, then decide what your risk-tolerance factor is.

THE SECURITY STRATEGY

Once you've decided to give it a go, plan out a security strategy to minimize your potential exposure to the law. This begins with secrecy, which can't be stressed enough. Discovering an indoor garden, particularly a small personal one, is a monumental task for law enforcement, even with all the sophisticated equipment at their disposal. When a bust is made, it's almost always precipitated by a tip of some kind—from a pissed-off ex, a nosy neighbor or a "friend" rolling over to get out of a drug charge.

The fewer people who know about your grow, the better. Tell only those you would trust with your life and who have a need to know. That's a much shorter list than most people think. Most new growers are proud of their setup and understandably want to show it off to friends, but you'd be surprised how fast a friend can turn on you when the shit hits the fan. A spouse can't be compelled to testify against you, and as a member of the household would be as culpable for the criminal activity as you, but a lover can turn vicious during a breakup. Don't take the chance.

Hiding your growroom from friends can be difficult. If you always have kind bud to share, people will inevitably get suspicious. Buy a bag of weed every so often to share, or invent a fictitious dealer as cover. Do whatever it takes to keep your secret.

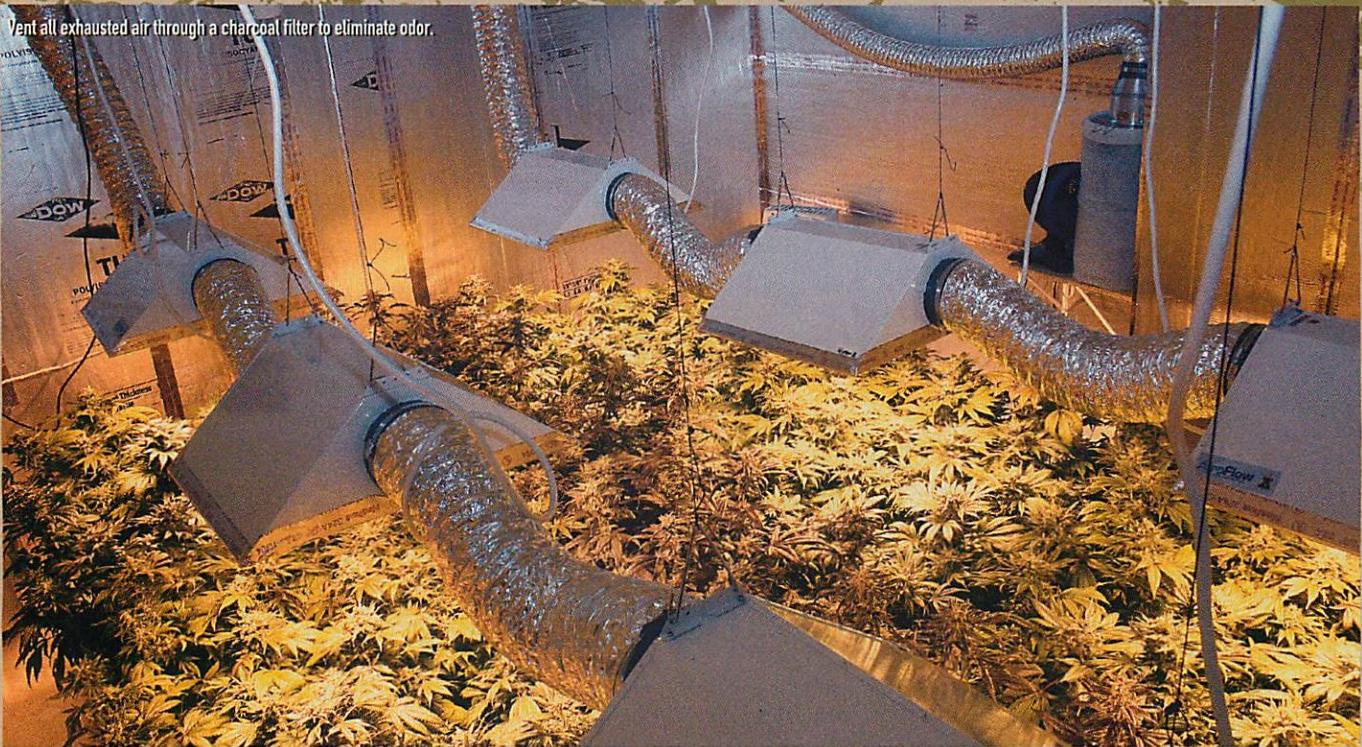
Maintaining a low profile is another part of secrecy. This means not sticking out in the neighborhood. Tie-dyed curtains, loud music and all-night keggers can bring down a lot of unwanted attention from the neighbors. Blend in as much as possible.

A big part of your security strategy should be deciding how much weed you want to grow and how to go about it in the most efficient way possible. This depends primarily on individual circumstances. In some cases, the best scenario is a well-hidden growroom providing just enough for your personal use year-round. That way, the setup is small and efficient, and you never have a large amount of weed at any given time.

A typical setup might include the use of several gardening techniques to maximize efficiency, such as cloning and two-stage gardening. By cloning, you can eliminate the production of undesirable male plants and cut the number of total plants in the garden by half. Creating a two-stage garden, with a vegetation chamber and a flowering chamber, allows you to rotate your crops through their life cycle faster to grow fewer plants per crop in a smaller space, again minimizing the amount you'll have on hand at any time should a raid go down.

In other cases, the best choice might be to grow one large crop every so often and produce enough to store and last until you do it again. In this scenario, you minimize the risk of the growroom being discovered by only running it for a few months at a time, and you end up with huge quantities of weed.

In either case, steps must be taken to hide the garden and keep it clandestine. Start by finding a place that you can keep secret. Basements, attics and out-of-the-way closets are all favorites of indoor growers and can make great growrooms, but each has its own set of challenges. Temperature and humidity must be monitored no matter where the garden is located. To do this, you'll need some kind of ventilation, which leads to the problem of odor control.



BIG CROPPA

ODOR, LIGHTING & SOUND

Providing ventilation while also controlling odor isn't an easy task. There are several ways to go about this, using a number of different products and devices. Chemical deodorants, HEPA filters, ozone makers and ion generators, used individually or in combination, are effective to varying degrees. Make sure these devices are properly sized for the area they'll be expected to cover. Placement is the key. Experiment to find the location that best minimizes odor.

Uvonaire makes several different models of ozone generators for any size garden and can be found at most large hydroponics stores. The Sharper Image sells various air cleaners and odor controllers in different sizes for small or large applications. Go to uvonair.com and sharperimage.com.

If the home has central heating or air-conditioning, there may be fresh-air or return-air intakes near the place you want to put the garden. If that's so, you could inadvertently end up using the central system to spread the odor all over the house.

If odor is the most obvious garden giveaway, light escaping from the growroom is the second. A curious glow coming from an attic or basement window at odd hours will draw suspicion from neighbors. Make sure that no light leaks out. Another matter to consider is sound: The humming of the ballasts from HID lighting can create quite a racket in a quiet house, espe-

cially at night. Even the vibrations can be felt under the right circumstances, so take measures to soundproof the garden as well.

You'll also need to consider your electrical usage and the purchasing of supplies. Minimizing electrical usage starts with not overbuilding the growroom. Design it to be as efficient as possible; the smaller it is, the less lighting you'll need and hence the less electricity you'll ring up. Conservation is the next step. Replace the light fixtures in your house with lower-wattage bulbs and turn off house lights when not in use. Cool the refrigerator down a notch. Cut back on AC. Insulate electric water heaters. Look for any way you can possibly decrease electrical usage in other places so it can be diverted to the garden.

Don't raise suspicion by constantly buying soil and supplies at the same place. The people at a small mom-and-pop shop will get to know you quickly and probably start asking questions just to help out, but you'll be hard-pressed to come up with answers. Large garden or home centers provide anonymity. Spread your business around.

WORST-CASE SCENARIO

If you get popped, don't make it worse. Cooperate, but only so far. The key is to know and exercise your rights in a civil, nonconfrontational manner.

First, never give permission to search your home or property without a warrant. You must

be clear in this regard. If you're asked permission for a search and you simply shrug, that can be construed as consent. Sometimes the police will tell you they're going to get a search warrant anyway, so you may as well give them your permission. Make them go through due process if they want to search your home.

If they should find anything or start to ask you questions, offer only your name and immediately ask whether or not you're under arrest. If you're not, ask whether you're allowed to leave. It's crucial to immediately determine your status. A favorite police trick is to get you talking before they put you under arrest. They don't need to read you your Miranda rights until you're actually under arrest. The trouble is, everything you say prior to being arrested can still be used against you. You're not going to talk your way out of it, so exercise your right to remain silent whether you're under arrest or not.

You have the right to an attorney and to have him or her present during any questioning. If you don't already have one, which is highly recommended, get one pronto. Demand to call your lawyer or request that one be provided the moment you're taken into custody.

Remember, of the thousands of people who garden indoors, only a very small percentage ever get caught. Know what you're getting into before you start, minimize your exposure and take every possible precaution, and you should have many healthy and happy harvests. ♣

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HIGH TIMES' 7TH ANNUAL STASH AWARDS

The Significant Technological Achievements in Secretive Horticulture (or STASH) Awards celebrate advances made by the cannabis-cultivation community, as well as tried-and-true products that have stood the test of time. These include lighting products, organic and hydroponic nutrients, new additives and practically anything else that helps increase yields or reduce hassles. This year's awards focus on economical choices for medicinal growers as well as some pricier units for the larger-scale commercial farmer. By Danny Danko and Big Croppa

BEST CLONING MACHINE

POWER CLONER 45 FROM AMERICAN AGRITECH

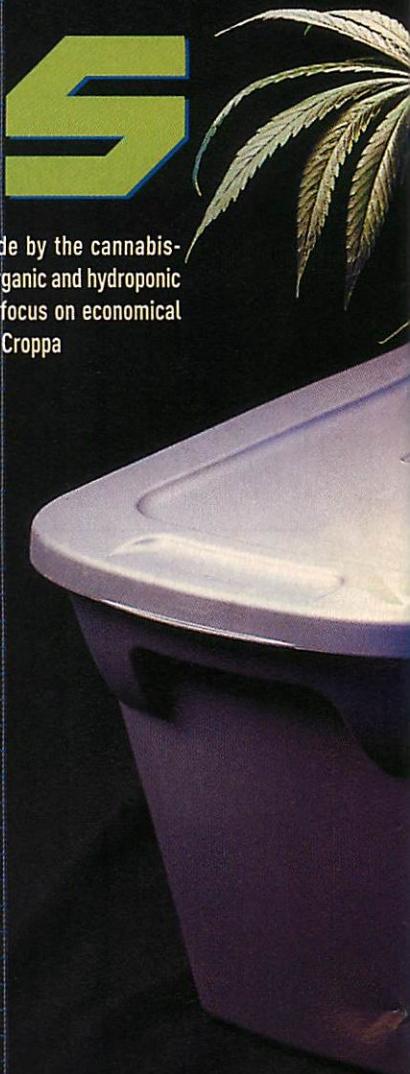
Cloning plants can be frustrating even for the most skilled grower. Many a prospective garden has been delayed while waiting for troubled cuttings to root under imperfect conditions. The Power Cloner takes out the guesswork by utilizing aeroponic technology to rapidly root up to 45 clones. A Humidome keeps moisture at the proper level, and the cut ends are constantly misted with highly oxygenated nutrient solution to produce prolific roots in a week or less. The Power Cloner unit takes up minimal floor space. Begun the clone war has.

Price: \$352.92

Contact: Just N' Tyme, 866-703-0609, justn-tyme.com



KYLE KUSHMAN



ANDRE GROSSMANN



BEST HYDROPONIC SYSTEM UNDER \$250

GSS MINI SYSTEM

For those intimidated by the costs and mysteries of hydroponics, this six-plant unit serves as the perfect testing ground. This simple, closet-size system incorporates nutrient-film technique (NFT) to constantly circulate oxygenated nutrient solution among growing roots. Plants grow strong quickly as the roots are bathed in pH-balanced, temperature-controlled water with liquid plant food added. The system comes with pre-cut tubes, all necessary hoses, a 7-gallon reservoir, aquarium heater, thermometer, air pump with airstone, 100+ GPS water pump, net cups, rockwool and grow rocks. Just add lighting and you'll soon be growing your weed in water.

Price: Unit, \$189.95; unit and accessories, \$249.95; with 400-watt HPS ballast and bulb, \$399.95

Contact: GSS Distribution; 800-895-1373; gssdist.com

STASH AWARDS

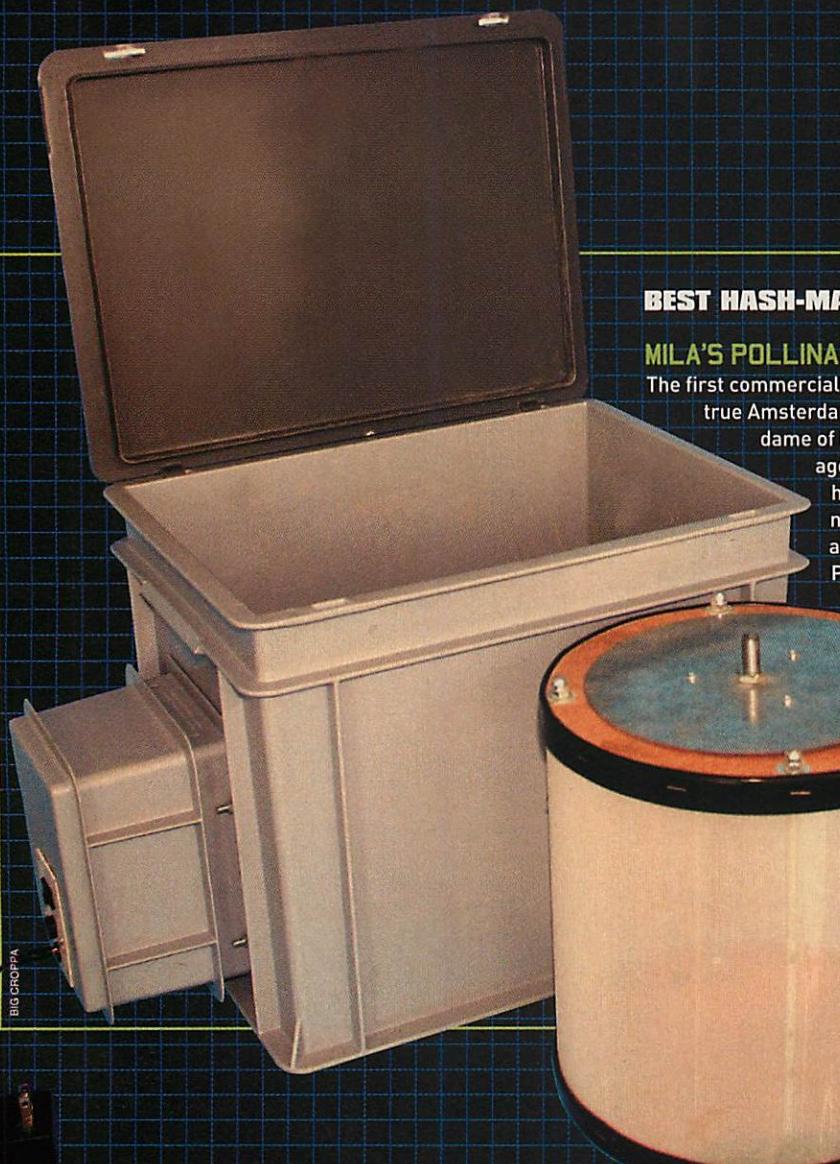
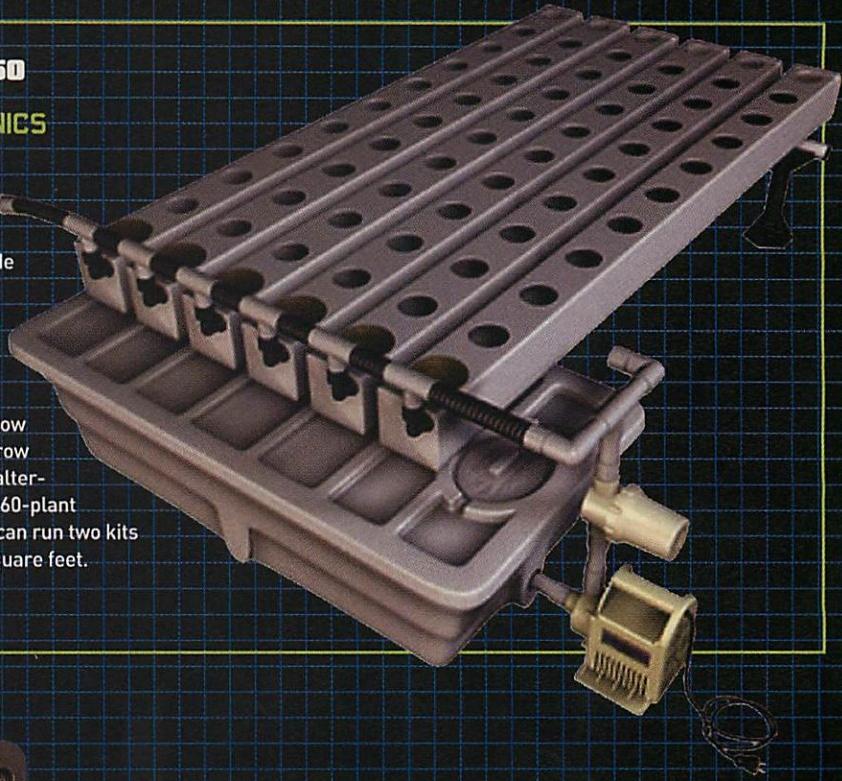
BEST HYDROPONIC SYSTEM OVER \$250

AEROFLO2 60 FROM GENERAL HYDROPONICS

Widely regarded as the Rolls-Royce of hydroponic units, the AeroFlo2 system from industry stalwarts General Hydroponics combines aeroponic misters with standard square hydro tubes to provide a perfect environment for growing roots. The pump operates outside the unit to reduce heat buildup in the reservoir, which can stifle growth and deplete oxygen in nutrient solution. Air lines along the tubes feed each plant individually with a fine mist of nutrient solution for accelerated growth. The AeroFlo2 60 comes with tubing, support structure, reservoir, grow cups, water pump, Hydroton grow rocks and the famous GH three-part Flora kit. Keep the grow chambers crowded together for a Sea of Green effect, or alternate the tubes to cover more area with larger plants. The 60-plant system is easily expandable using the extension unit and can run two kits from the same pump to grow 120 plants in less than 10 square feet.

Price: \$1,204.60

Contact: Just N' Tyme, 866-703-0609, justn-tyme.com



BEST HASH-MAKING PRODUCT

MILA'S POLLINATOR

The first commercially available hash-sifting machine is still the best—a true Amsterdam original, just like its inventor. Mila, the grande dame of hashish, created the Pollinator more than 10 years ago and single-handedly jump-started the domestic hashish industry in Holland (the Dutch-made product now has its own name: Nederhash). Utilizing a removable circular drum rotated by an electric motor, the Pollinator tumbles your material (trimmings, under-cuttings, leftover shake) using a silk screen to extract only the finest trichomes that fall through the tiny holes. This kif is then collected and can be smoked, or molded and saved for later consumption. Available in three sizes and with two different grades of silk screen, the Pollinator allows anyone to extract resin glands from weed for a potent blast of concentrated THC.

Price: P150 (150 grams), \$550; P500 (500 grams), \$795; P3000 (3,000 grams), \$2,250

Contact: Green Harvest, 604-880-2829, greenharvest.ca

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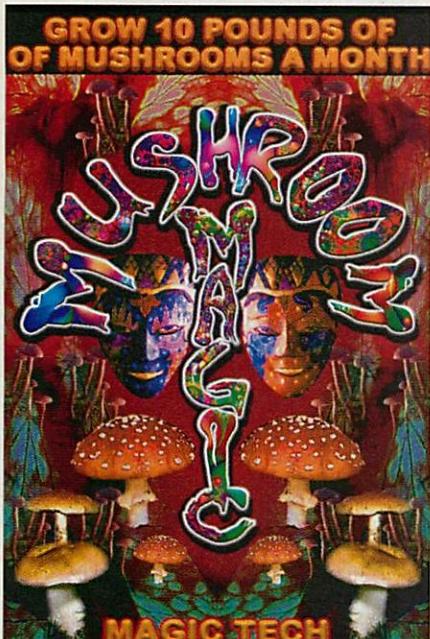
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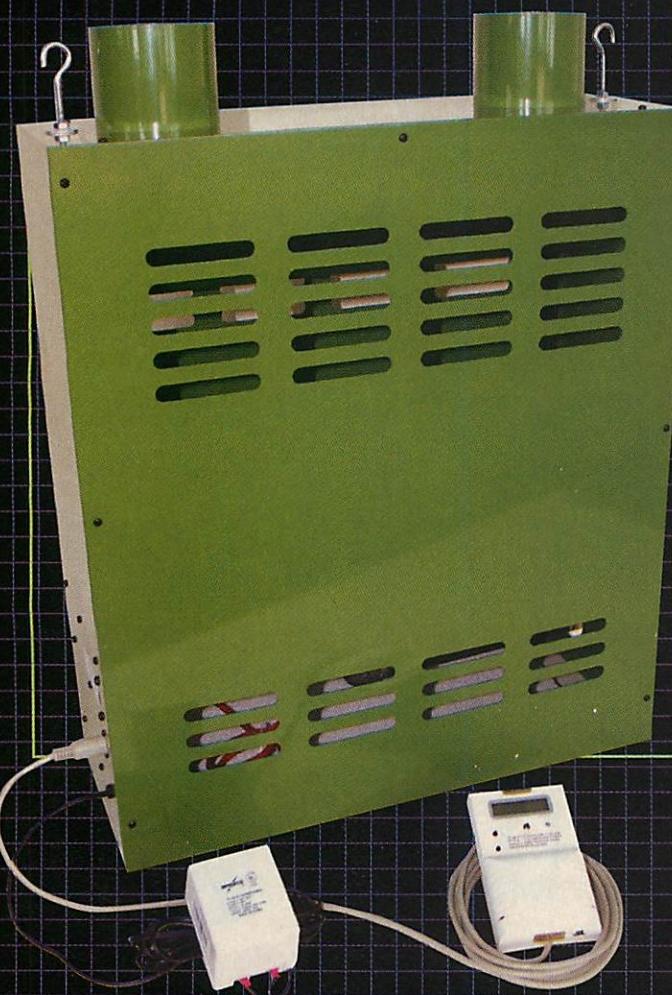
BEST TRIMMING PRODUCT

TRIMPRO/TRIMBOX

One of the most mind-numbing and time-consuming tasks for ganja growers is trimming plants. Hours are wasted meticulously clipping leaves away from buds for proper jar-worthy pot. Trimpro, for commercial growers, and Trimbox, for home gardeners, save growers loads of time and energy. The Trimpro, designed to be set up as a stand-alone unit, can be used by two people at once, cutting trimming time by up to 50 percent. The trimmer comes with two different grates to suit all strains: The red top has wide grate lines, while the blue one combines small and wide holes. The Trimbox, barely larger than a gallon of paint, can be attached to any table or countertop and is significantly quieter than its larger cousin. Both units conveniently collect the cut trimmings into a bag for future cooking or hash-making.

Price: Trimpro, \$1,494.95; Trimbox, \$994.95

Contact: West Coast Growers, 888-924-4769; westcoastgrowers.com



BEST CO₂ GENERATOR

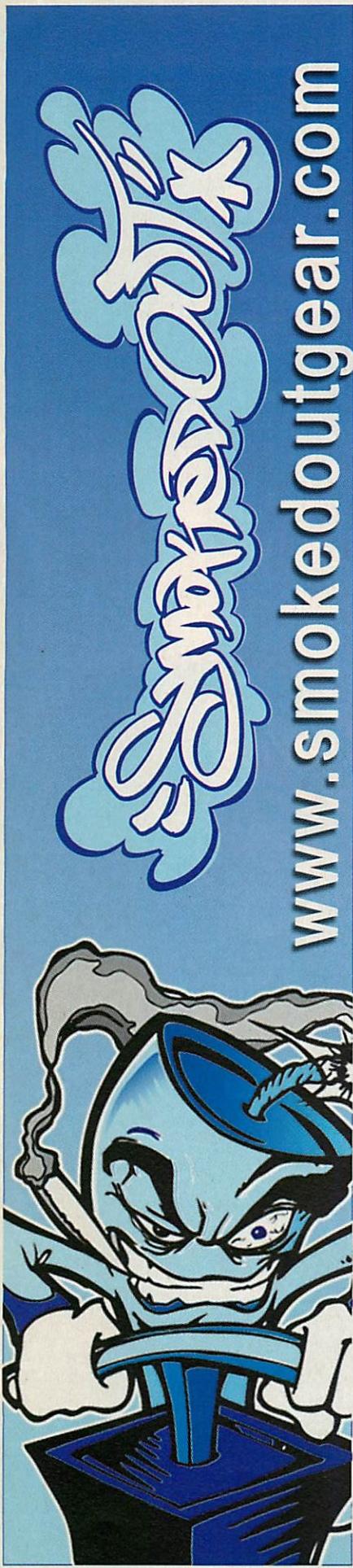
SOLATEL GAS PRO

Carbon dioxide gas, absolutely essential for photosynthesis, is quickly depleted in any closed indoor environment. A lack of CO₂ can slow or even stop plant growth altogether, yet many growers simply ignore the problem, intimidated by the idea of acquiring and refilling bulky tanks of compressed gas. The new line of CO₂ generators from Solatel allows cultivators to use cheaper and easier-to-get propane, commonly used in barbecues and thus available everywhere.

Several features set the Solatel units apart from other generators. The Gas Pro utilizes a fast and efficient electronic spark ignition, and an innovative dual-duct heat-exchange compartment keeps the unit cool during especially hot months. A 20-inch propane-gas cord and a 10-inch power cord give the generator greater mobility, allowing for strategic placement of the unit to fit the growing environment. Double your harvests with CO₂ gas.

Price: GP-06-LP (6-burner) \$1,250; GP-12-LP (12-burner), \$1,500

Contact: Alternative Garden Supply, 800-444-2837; altgarden.com



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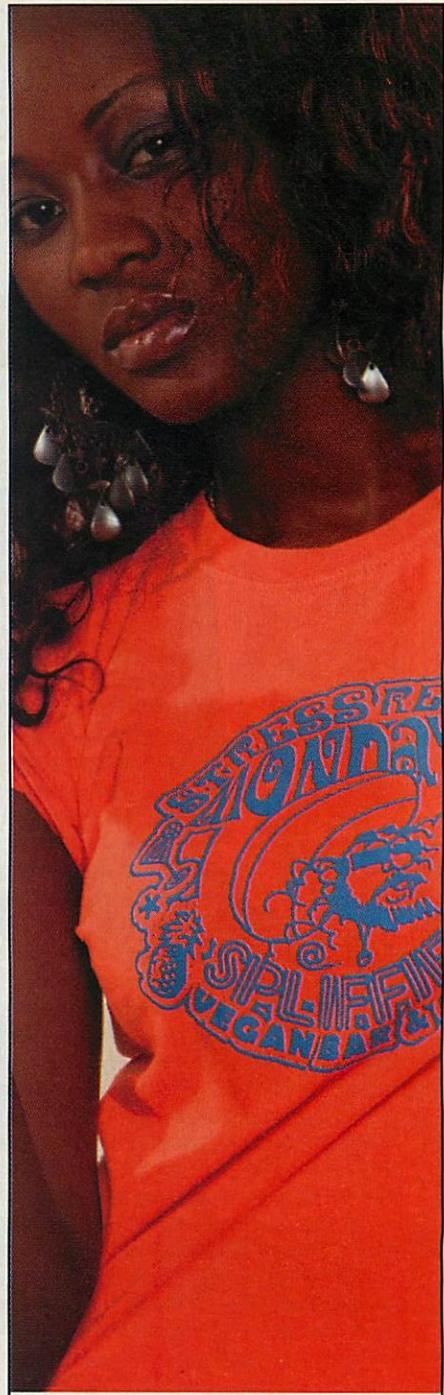
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BAMBÚ ROLLING PAPERS

Since 1764, 12 years before the signing of the Declaration of Independence, Bambú has delivered high-quality rolling papers to smokers. And although the papers are manufactured in Spain, "Bambú is as American as apple pie," according to Sarah Saiger, head of public relations, who recently hosted a party at the Marquee in Manhattan to celebrate the brand's new line of fashion apparel and other smoking accessories.

At the "high-end" affair, guys sported trucker hats with Bambú logos while scantily clad promotional girls in ripped Bambú tees distributed

rolling papers and lighters. Legendary DJ Stretch Armstrong spun a mix of dancehall and stoner rock while the beer and booze flowed freely, thanks to sponsorship by Svedka vodka and the Rheingold Brewing Co.

"Bambú has never had such a great party," Saiger told HIGH TIMES a few days after the fiesta, when we caught up with her to talk about the family business. Saiger's grandfather, Michael Spielvogel, started out marketing and distributing Bambú in the '60s and ended up buying the company in 1985. For the next 20 years, over three generations, a group of tightly rolled relatives ran Bambú out of the company's Long Island headquarters. Saiger's grandmother (also named Sarah) runs the show these days.

The brand's best-known icon, however, isn't really a member of the family. Bambú added the image of the winking Spaniard to the covers of its rolling papers in the '60s.

Even then, the suave emblem was clad in his now-legendary Panama-style hat and green sport coat, with a scar over his right eye and a hand-rolled cigarette dangling from his lower lip. Bambú gained notoriety in 1972 when Cheech and Chong's second album, *Big Bambú*, arrived as a record packaged in a giant rolling paper and reached the No. 2 spot on the *Billboard* charts.

Bambú papers were originally manufactured in a factory in Alcoy, Spain, but the operation eventually moved to the Miquel y Costas factory in Barcelona, where the company has maintained its timeless approach to the manufacturing of its product. Particular attention is paid to the gum sealer, which is made from a specific type of the African acacia tree and is completely free of man-made chemicals and additives.

"Perhaps that's why it's so popular in Caribbean countries," Saiger muses, since so many Rastas and West Indians adhere to a diet that excludes pork, including the boiled pig marrow used in some gum sealers.

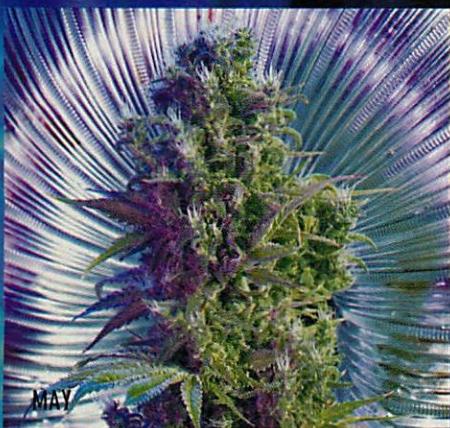
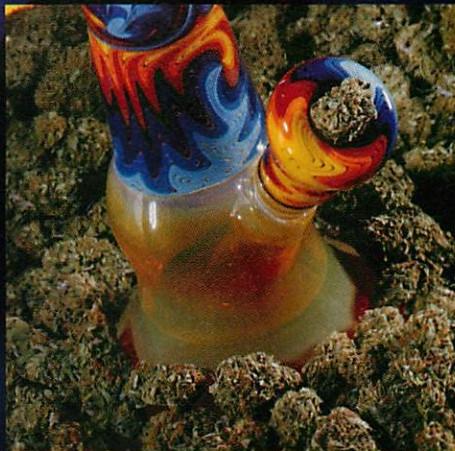
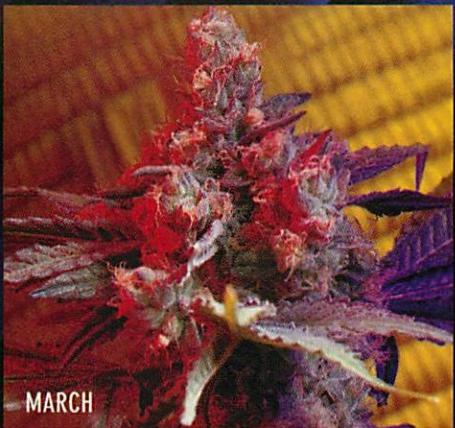
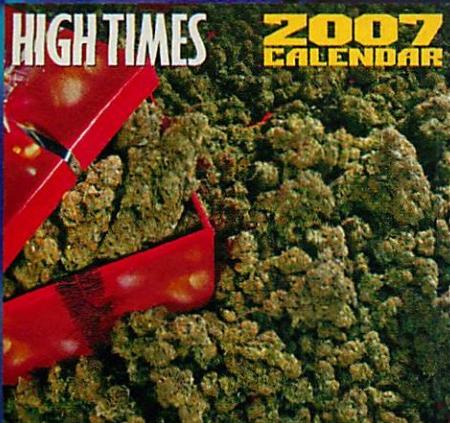
Through the years, Bambú has experimented with vanilla-, cherry- and even cannabis-flavored papers, and though those lines were discontinued, Sarah says new flavors (most notably, strawberry and banana) are in the works. The company also recently relaunched bambu.com to promote its new line of smokers' apparel.

"The Web site has allowed us to have more interaction with our customers," Saiger says. "You can buy papers online. People from almost every state have contacted us to either buy papers or share a story. We are asking our customers, 'Where should Bambú go next?' If you have any suggestions or memories that you'd like to share, please let us know."

Bambú's history is rich and varied, but through the centuries, its dedication to providing smokers with quality papers has never wavered. The company's ability to adapt to changing trends while maintaining its integrity has earned it our Lifetime Achievement Award.—Jason Storbakken

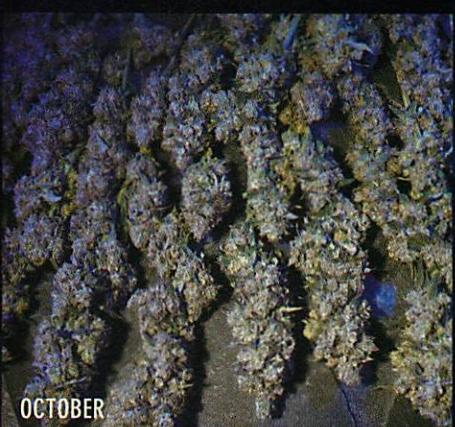
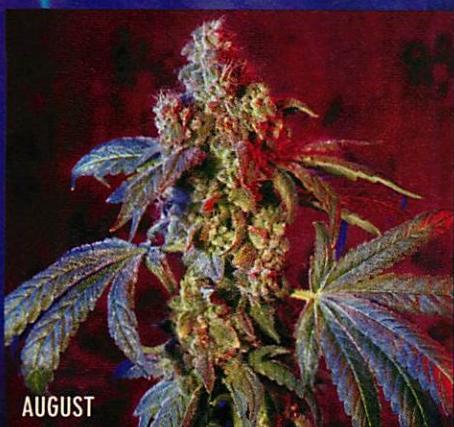


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Their base nutrients are the foundation of any good plant-feeding regimen. The simple three-part system (Micro, Grow and Bloom), used in conjunction with a grower's chosen additives, makes a perfect base upon which to build bigger buds. The two-part Sensi Grow A+B and Sensi Bloom A+B formulas provide unparalleled plant nutrition.

Products such as Overdrive and Dr. Hornby's Big Bud, Piranha and Voodoo Juice are just some of the additives that will push your plants to greater heights. Other additives making a splash in reservoirs everywhere are Revive, B-52 fertilizer booster, Sensi Zym and Barricade, top products for soilless mediums. Toward the end of the flowering cycle, Final Phase is ideal for leaching plants of all salt and nutrient buildups. This reduces harshness and give buds a better taste.

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Price: 16 oz, \$5.95; quart, \$9.95; gallon, \$29.99
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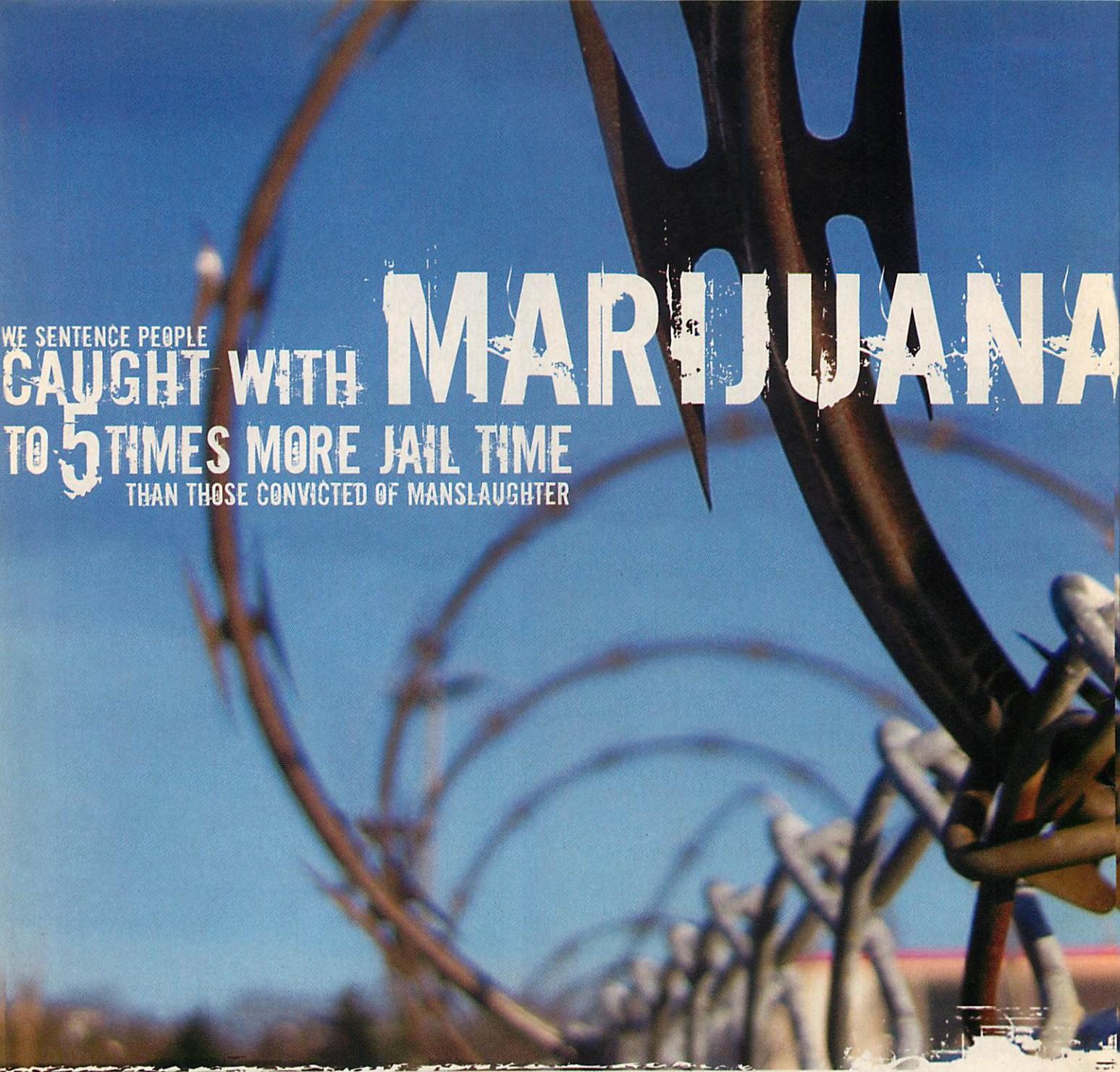
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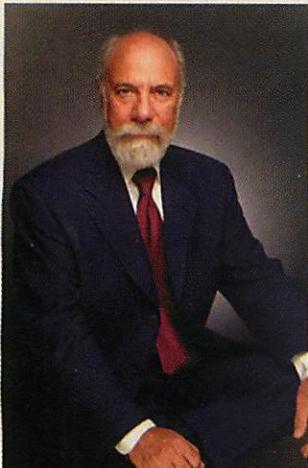
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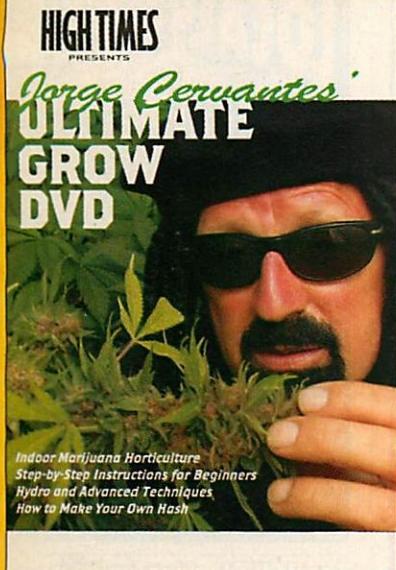
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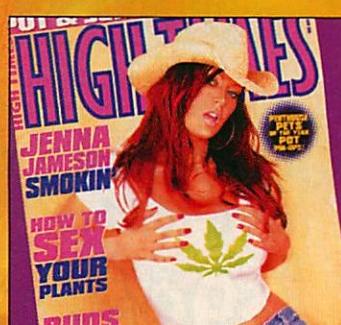
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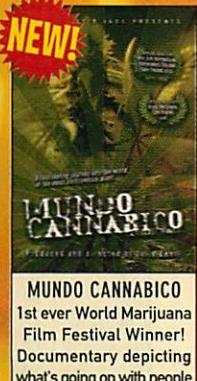
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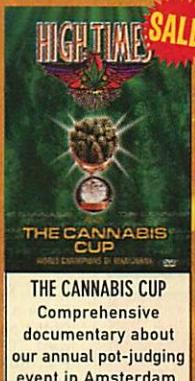
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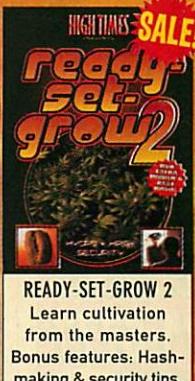
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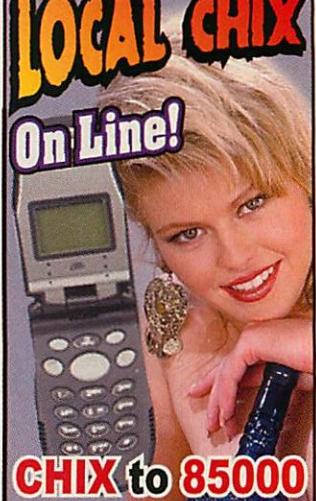
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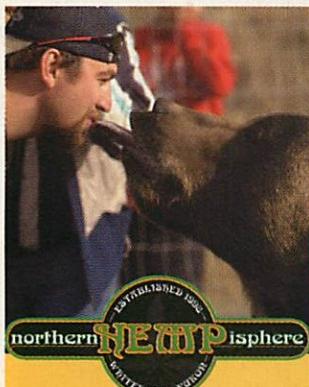
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